Environmental Assessment/Baseline Survey to Establish New Drop Zone (DZ) in Cadiz, Ohio

Pittsburgh Air Reserve Station, Coraopolis, Pennsylvania





Final Environmental Assessment and Baseline Survey

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DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE COMMAND

FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE ESTABLISHMENT OF A NEW DROP ZONE IN CADIZ, OHIO

The attached environmental assessment (EA) and environmental baseline survey (EBS) analyzes the potential environmental impacts associated with the establishment of a new drop zone near Cadiz, Ohio. Associated with this Proposed Action is a Finding of No Significant Impact (FONSI).

The Proposed Action would entail leasing approximately 430 acres of privately-owned property on a reclaimed strip mine for use by the 911th Airlift Wing (AW) stationed at Pittsburgh International Airport (IAP) Air Reserve Station (ARS). The No-Action Alternative would be to not lease the property, and continue using existing drop zone facilities.

The resources analyzed for environmental impact are land use, airspace management, noise, air quality, safety and occupational health, hazardous materials and hazardous waste, earth resources, water resources, biological resources, cultural resources, socioeconomics, environmental justice, recreation and visual resources, and transportation. No potential significant impacts to any of these resources were identified.

There would be no changes in existing land use at the proposed Cadiz Drop Zone property. Restrictions on aircraft approach and departure directions and coordination with the Federal Aviation Administration would result in no significant impacts to airspace management. Noise levels from C-130 operations over the proposed Cadiz Drop Zone property would be below 45 A-weighted decibels (dBA), well below the 65 dBA threshold for compatibility with all land uses. Air emissions from aircraft operating at the drop zone would not result in significant impacts to air quality. Standard drop zone safety procedures would be implemented. Hazardous materials used and hazardous waste generated on the proposed Cadiz Drop Zone property as a result from vehicle traffic would be minimal and would be handled in accordance with established procedures. No ground disturbing activities that could affect earth or water resources would occur. Drop zone activities are not expected to affect threatened or endangered species, sensitive habitats, or cultural resources. The proposed action would not result in any changes to employment or population. Because no significant impacts to resources were identified, no adverse effects to disproportionately high minority, low-income, or youth populations would occur. No changes to recreation or visual resources would occur. The small number of ground vehicles required for drop zone activities would not have a significant impact on transportation.

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of the proposed action in conjunction with other past, present, or reasonably foreseeable future actions. Other actions that would occur in the region include continued low level training by the 911 AW and strip mining activities. These activities are not anticipated to result in cumulative impacts when added to potential impacts of proposed action.

As a result of the analysis of impacts in the EA, it was concluded that the activities proposed to be conducted under the Proposed Action would not have a significant effect on human health or the natural environment. This FONSI is based upon the attached EA, which has been independently evaluated by the Air Force and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project. This EA provides sufficient evidence and analysis to determine that an environmental impact statement is not required.

GORDON H. ELWELL, JR., Colonel, USAFR

Commander, 911th Airlift Wing

Date

EXECUTIVE SUMMARY

BACKGROUND

This document is a combined environmental assessment (EA) and environmental baseline survey (EBS) prepared to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The EA evaluates the potential environmental impacts associated with the establishment and operation of the Cadiz Drop Zone. This EA has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 United States Code [U.S.C.] 4321, et seq.), the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and Air Force policy and procedures (32 CFR Part 989).

The EBS has been prepared to document the environmental condition of property resulting from the release and disposal of hazardous substances, petroleum products and their derivatives, if any, on the proposed drop zone property, and to establish a baseline for use by the Air Force in making decisions concerning real property transactions. The preparation of an EBS is required by Department of Defense (DOD) policy before any property can be sold, leased, transferred, or acquired.

PURPOSE AND NEED

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone would not have these limitations.

SITE LOCATION

The proposed Cadiz Drop Zone is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz. The area proposed to be leased by the Air Force is an approximately 430-acre site on a reclaimed strip mine owned by CONSOL Energy.

DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES

Two alternatives were analyzed, the Proposed Action and No-Action Alternative.

Under the **Proposed Action**, the 911 AW would lease property owned by CONSOL Energy in Harrison County, Ohio, for use as a drop zone for training.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. Aircraft would not usually fly directly to the drop zone from the ARS, but would fly a training route. During a typical drop zone training day, 12 airdrop training events would be conducted. These would be conducted as part of three separate training flights. During each of the three trips, each of the two aircraft would fly an approximately 45-minute training route, make a drop, fly another approximately 45-minute training route, then make a second drop before returning to the ARS.

No fly zones for approach would be established in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags. Heavier dropped material, referred to as "actual loads" would be dropped only 2-3 times per month.

The site would be certified for use by paratroopers. However, paratrooper drops are not currently planned as part of routine activities at the proposed drop zone, but would likely be conducted only as part of special training events. These are not expected to be conducted more than approximately once every two years.

Drop zone operations would generally be conducted between 7 a.m. and 11 p.m. and could occur any day of the week. The drop zone boundary would not be fenced, but the entire site is located within a fenced area with a locked gate. The AFR would coordinate with the Federal Aviation Administration (FAA) flight service station to issue a local Notice to Airmen (NOTAM) when drops are scheduled. Air drops would be limited by weather conditions that allow visual confirmation of the target from the aircraft.

No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control. However, should vegetation on the active part of the drop zone become too tall, its height may need to be controlled by mowing.

Under the **No-Action Alternative**, the 911 AW would not lease the CONSOL Energy property and would continue to use the Starvaggi Drop Zone as their only airdrop training site.

SUMMARY OF ENVIRONMENTAL CONSEQUENCES

The resources analyzed for environmental impact are land use, airspace management, noise, air quality, safety and occupational health, hazardous materials and hazardous waste, earth resources, water resources, biological resources, cultural resources, socioeconomics, environmental justice, recreation and visual resources, and transportation.

Activities associated with the establishment and operation of the Cadiz Drop Zone would not have a significant impact on any of the resources analyzed.

CUMULATIVE IMPACTS

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of the proposed action in conjunction with other past, present, or reasonably foreseeable future actions. Other actions that would occur in the region include continued low level training by the 911 AW and strip mining activities. These activities are not anticipated to result in cumulative impacts when added to potential impacts of proposed action.

EBS FINDINGS

The property is an undeveloped reclaimed strip mine. No structures, facilities, or utilities are present on or adjacent to the property. The property was in an area actively mined from the early to mid 1980s to the early to mid 1990s. Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s. The final bond release has been granted for this property.

No issues with regards to the EBS topics of environmental restoration program sites, storage tanks, oil/water separators, solid waste, medical or biohazardous waste, radioactive material, wastewater treatment, collection and discharge, pesticides, asbestos, polychlorinated biphenyls, radon, and lead-based paint have been identified.

Past use of the property as part of a strip mine may have involved use of small quantities of hazardous materials and petroleum products associated with the operation of mining equipment, such as fuels and oils, and ordnance may have been used as part of mining activities. Hazardous materials and petroleum products and ordnance are not currently used or stored on the property.

Based on an analysis of the available data, no release or disposal of hazardous substances or petroleum products has occurred on the property and it is considered Category 1.

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TABLE OF CONTENTS

| | | | Page | | |
|-----|-------|--|------|--|--|
| EXE | CUTIV | E SUMMARY | ES-1 | | |
| 1.0 | INTF | INTRODUCTION | | | |
| | 1.1 | PURPOSE OF THE DOCUMENT | | | |
| | 1.2 | PURPOSE AND NEED FOR THE PROPOSED ACTION | 1-2 | | |
| | | 1.2.1 Location of the Proposed Action | 1-2 | | |
| | 1.3 | SURVEY METHODOLOGY | | | |
| | 1.4 | APPROACH AND RATIONALE | 1-6 | | |
| | | 1.4.1 Documents Reviewed | 1-6 | | |
| | | 1.4.2 Property Inspections | 1-7 | | |
| | | 1.4.3 Personnel Interviews | 1-7 | | |
| | 1.5 | ORGANIZATION OF THE ENVIRONMENTAL ASSESSMENT AND | | | |
| | | ENVIRONMENTAL BASELINE SURVEY | 1-7 | | |
| 2.0 | ALT | ERNATIVES INCLUDING THE PROPOSED ACTION | 2-1 | | |
| | 2.1 | PROPOSED ACTION | | | |
| | 2.2 | ALTERNATIVES | 2-6 | | |
| | | 2.2.1 No-Action Alternative | 2-6 | | |
| | | 2.2.2 Alternatives Considered but Eliminated from Further Consideration. | 2-6 | | |
| | 2.3 | BOUNDARIES OF THE PROPERTY/SURVEY AREA | 2-8 | | |
| | | 2.3.1 Legal Description of the Property to be Transferred | 2-8 | | |
| | | 2.3.2 Map | | | |
| 3.0 | AFF | ECTED ENVIRONMENT | 3-1 | | |
| | 3.1 | ENVIRONMENTAL SETTING | 3-1 | | |
| | | 3.1.1 Topographic Features | 3-1 | | |
| | | 3.1.2 Chain of Title for the Past 50 Years | | | |
| | | 3.1.3 Utilities Available to the Site | 3-1 | | |
| | 3.2 | LAND USE | 3-1 | | |
| | | 3.2.1 Current Land Use | 3-1 | | |
| | | 3.2.2 Historic Land Use | 3-2 | | |
| | 3.3 | AIRSPACE | 3-2 | | |
| | 3.4 | NOISE | 3-3 | | |
| | 3.5 | AIR QUALITY | 3-4 | | |
| | 3.6 | SAFETY | 3-7 | | |
| | 3.7 | HAZARDOUS MATERIALS AND HAZARDOUS WASTE | 3-7 | | |
| | | 3.7.1 Results of Database Search | 3-7 | | |
| | | 3.7.2 Hazardous Substances | 3-7 | | |
| | | 3.7.2.1 Hazardous Material and Petroleum Products | 3-7 | | |

| | | | Page |
|------|--------|---|------|
| | | 3.7.2.2 Hazardous and Petroleum Waste | 3-8 |
| | 3.7.3 | Environmental Restoration Program | 3-8 |
| | 3.7.4 | Storage Tanks | |
| 3.8 | OIL/W | ATER SEPARATORS | |
| 3.9 | SOLID | WASTE | 3-8 |
| 3.10 | MEDIO | CAL OR BIOHAZARDOUS WASTE | 3-8 |
| 3.11 | RADIO | DACTIVE WASTE | 3-9 |
| 3.12 | WAST | EWATER TREATMENT, COLLECTION, AND DISCHARGE | 3-9 |
| 3.13 | PESTI | CIDES | 3-9 |
| 3.14 | ORDN | ANCE | 3-9 |
| 3.15 | ASBES | STOS | 3-9 |
| 3.16 | POLY | CHLORINATED BIPHENYLS | 3-9 |
| 3.17 | | N | |
| 3.18 | LEAD. | -BASED PAINT | 3-10 |
| 3.19 | EART | H RESOURCES | 3-10 |
| 3.20 | WATE | ER RESOURCES | 3-11 |
| | 3.20.1 | Hydrogeologic Features | 3-11 |
| | 3.20.2 | Drinking Water Quality | 3-11 |
| | | Groundwater | |
| 3.21 | BIOLO | OGICAL RESOURCES | 3-12 |
| | 3.21.1 | Wetlands/Floodplains | 3-13 |
| | 3.21.2 | Protected Species | 3-13 |
| 3.22 | CULT | URAL RESOURCES | |
| | 3.22.1 | Archaeological / Historic Sites | 3-15 |
| | 3.22.2 | Native American Issues | 3-15 |
| 3.23 | | DECONOMICS | |
| 3.24 | | RONMENTAL JUSTICE | |
| 3.25 | | EATIONAL AND VISUAL RESOURCES | |
| 3.26 | TRAN | SPORTATION | 3-18 |
| ENVI | RONME | ENTAL IMPACTS | 4-1 |
| 4.1 | | USE | |
| | 4.1.1 | Proposed Action | |
| | 4.1.2 | No-Action Alternative | |
| 4.2 | AIRSP | ACE MANAGEMENT | |
| | 4.2.1 | Proposed Action | |
| | 4.2.2 | No-Action Alternative | |
| | | | |

4.0

| | | <u>Page</u> |
|------|---|-------------|
| 4.3 | NOISE | 4-2 |
| | 4.3.1 Proposed Action | 4-2 |
| | 4.3.2 No-Action Alternative | 4-3 |
| 4.4 | AIR QUALITY | 4-3 |
| | 4.4.1 Proposed Action | 4-3 |
| | 4.4.2 No-Action Alternative | 4-5 |
| 4.5 | SAFETY AND OCCUPATIONAL HEALTH | 4-5 |
| | 4.5.1 Proposed Action | 4-5 |
| | 4.5.2 No-Action Alternative | |
| 4.6 | HAZARDOUS MATERIALS AND HAZARDOUS WASTE | 4-6 |
| | 4.6.1 Proposed Action | 4-6 |
| | 4.6.2 No-Action Alternative | 4-6 |
| 4.7 | EARTH RESOURCES | 4-7 |
| | 4.7.1 Proposed Action | 4-7 |
| | 4.7.2 No-Action Alternative | |
| 4.8 | WATER RESOURCES | 4-7 |
| | 4.8.1 Proposed Action | 4-7 |
| | 4.8.2 No-Action Alternative | 4-7 |
| 4.9 | BIOLOGICAL RESOURCES | 4-8 |
| | 4.9.1 Proposed Action | 4-8 |
| | 4.9.2 No-Action Alternative | 4-9 |
| 4.10 | CULTURAL RESOURCES | 4-9 |
| | 4.10.1 Proposed Action | 4-9 |
| | 4.10.2 No-Action Alternative | 4-10 |
| 4.11 | SOCIOECONOMICS | 4-10 |
| | 4.11.1 Proposed Action | 4-10 |
| | 4.11.2 No-Action Alternative | 4-10 |
| 4.12 | ENVIRONMENTAL JUSTICE | 4-10 |
| | 4.12.1 Proposed Action | 4-10 |
| | 4.12.2 No-Action Alternative | 4-10 |
| 4.13 | RECREATION AND VISUAL RESOURCES | 4-11 |
| | 4.13.1 Proposed Action | 4-11 |
| | 4.13.2 No-Action Alternative | 4-11 |
| 4.14 | TRANSPORTATION | 4-11 |
| | 4.14.1 Proposed Action | 4-11 |
| | 4.14.2 No-Action Alternative | 4-11 |
| 4 15 | OTHER | 4-11 |

| | | | <u>Page</u> | | |
|------|---|--|-------------|--|--|
| 5.0 | FINDINGS FOR ADJACENT PROPERTIES | | | | |
| | 5.1 | LAND USES WITHIN ¼ MILE OF PROPERTY | | | |
| | 5.2 | POTENTIAL ENVIRONMENTAL CONCERNS WITHIN 1/4 MILE | | | |
| | | OF PROPERTY | 5-1 | | |
| 6.0 | CUMULATIVE EFFECTS OF THE ACTION | | | | |
| | 6.1 | DEFINITION OF CUMULATIVE EFFECTS | 6-1 | | |
| | 6.2 | PAST, PRESENT, AND REASONABLY FORESEEABLE ACTIONS | 6-1 | | |
| | 6.3 | CUMULATIVE EFFECTS ANALYSIS | | | |
| 7.0 | APPI | LICABLE REGULATORY COMPLIANCE ISSUES | 7-1 | | |
| | 7.1 | COMPLIANCE ISSUES | 7-1 | | |
| | 7.2 | DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR | | | |
| | | IN PROGRESS | 7-1 | | |
| 8.0 | CONCLUSIONS REGARDING SUITABILITY TO PROCEED WITH THE | | | | |
| | REA | L ESTATE TRANSACTION | 8-1 | | |
| | 8.1 | FACILITY MATRIX | 8-1 | | |
| | 8.2 | PROPERTY CATEGORIES | 8-1 | | |
| | 8.3 | NATURAL RESOURCES ISSUES | 8-2 | | |
| | | 8.3.1 Wetlands | 8-2 | | |
| | | 8.3.2 Protected Species | 8-2 | | |
| | | 8.3.3 Archaeological/Historic Sites | 8-2 | | |
| | 8.4 | DATA GAPS | 8-2 | | |
| 9.0 | | OMMENDATIONS REGARDING PROCEEDING WITH THE | | | |
| | REA | L ESTATE TRANSACTION | 9-1 | | |
| 10.0 | IRRF | VERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES | 10-1 | | |

APPENDICES

Appendix A: References

Appendix B: Terms

Appendix C: List of Preparers

Appendix D: Persons and Agencies Contacted

Appendix E: Maps and Aerial Photographs

Appendix E-1: Historical Topographic Map Report

Appendix E-2: Aerial Photo Decade Package

Appendix F: Site Photographs

Appendix G: Site Inspection Documents

Appendix G-1: Records Search Report

Appendix G-2: Trip Report

Appendix G-3: Visual Site Inspection Forms

Appendix G-4: Environmental Liens Search

Appendix H: EBS Certification

Appendix I: Air Emissions Calculations

Appendix J: Regulatory Consultation

Appendix K: Interagency and Intergovernmental Coordination for Environmental Planning

and Public Comments and Responses

LIST OF FIGURES

| | | <u>Page</u> |
|--------|---|-------------|
| 1.2-1 | Pittsburgh International Airport Air Reserve Station Regional Map | 1-3 |
| 1.2-2 | Proposed Cadiz Drop Zone Area Map | 1-4 |
| 2.1-1 | Proposed Cadiz Drop Zone | 2-2 |
| 2.1-2 | No-Fly on Approach Zones, Proposed Cadiz Drop Zone | 2-4 |
| | LIST OF TABLES | |
| 3.4-1 | National Ambient Air Quality Standards | 3-5 |
| 3.24-1 | Percent Minority, Low-Income, and Persons Under 18 Years of Age Popul | |
| 4.4-1 | Cadiz Drop Zone Annual Aircraft Emissions Summary | 4-4 |

ACRONYMS AND ABBREVIATIONS

911 AW 911th Airlift Wing
AFI Air Force Instruction
AFPD Air Force Policy Directive

AFR Air Force Reserves
AGL above ground level
APE area of potential effect

ARPA Archaeological Resources Protection Act

Assessor Parcel Numbers

ARS Air Reserve Station

ASTM American Society for Testing and Materials

CAA Clean Air Act

APN

CEQ Council on Environmental Quality

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

CO carbon monoxide CO₂ carbon dioxide CWA Clean Water Act

dB decibels

dBA A-weighted decibel

° degree

DNL day-night noise level

DNR Department of Natural Resources

DOD Department of Defense
EA environmental assessment
EBS environmental baseline survey

EO Executive Order

EPA Environmental Protection Agency
ERP Environmental Restoration Program
FAA Federal Aviation Administration
FIC Federal Interagency Committee
FOSL Finding of Suitability to Lease

HUD Department of Housing and Urban Development

IAP International Airport

LATN Low Altitude Tactical Navigation
MACA Military Airspace Collision Avoidance

μg/m³ microgram per cubic meter

MSL mean sea level

NAAQS National Ambient Air Quality Standards

National Register National Register of Historic Places

NEPA National Environmental Policy Act NHPA National Historic Preservation Act

 $egin{array}{ll} NO_2 & \mbox{nitrogen dioxide} \\ NO_X & \mbox{nitrogen oxide} \\ NOTAM & \mbox{Notice to Airmen} \\ \end{array}$

 PM_{10} particulate matter equal to or less than 10 microns in diameter PM_{25} particulate matter equal to or less than 2.5 microns in diameter

ppm parts per million

PSD Prevention of Significant Deterioration RCRA Resource Conservation and Recovery Act

SHPO State Historic Preservation Officer

SIP State Implementation Plan SKE Station Keeping Equipment

SO₂ sulfur dioxide SR State Route TAC Tactical tpy tons per year

USC United States Code

USFWS U.S. Fish and Wildlife Service USGS United States Geological Survey

VOC volatile organic compound VRS visual reconnaissance survey

VSI visual site inspections

1.0 INTRODUCTION

1.1 PURPOSE OF THE DOCUMENT

This document is a combined environmental assessment (EA) and environmental baseline survey (EBS) prepared to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The EA evaluates the potential environmental impacts associated with the establishment and operation of the Cadiz Drop Zone. This EA has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 United States Code [U.S.C.] 4321, et seq.), the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and Air Force policy and procedures [32 CFR Part 989]).

The EBS has been prepared to document the environmental condition of property resulting from the release and disposal of hazardous substances, petroleum products and their derivatives, if any, on the proposed drop zone property, and to establish a baseline for use by the Air Force in making decisions concerning real property transactions. The preparation of an EBS is required by Department of Defense (DOD) policy before any property can be sold, leased, transferred, or acquired.

Air Force Policy Directive (AFPD) 32-70, *Environmental Quality*, provides responsibilities and procedures for conducting an EBS and is implemented through Air Force Instruction (AFI) 32-7066, *Environmental Baseline Surveys in Real Estate Transactions*. The information presented in this EBS is complete and accurate as of October 2008. This EBS is based on available environmental information related to past and present storage, release, and disposal of hazardous substances and petroleum products on the proposed drop zone property.

This EBS will be used by the Air Force, along with other available information, to:

- Develop sufficient information to assess the health and safety risks on the property surveyed and to determine what actions are necessary to protect human health and the environment
- Support decision for a Finding of Suitability to Lease (FOSL) as well as aid in determining potential land use restrictions
- Identify data gaps concerning environmental contamination
- Identify potential environmental concerns associated with the property.

1.2 PURPOSE AND NEED FOR THE PROPOSED ACTION

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania (Figure 1.2-1). However, this site has several serious limitations that restrict the 911 AW's airdrop training. Drop zone site requirements that are currently not provided at the Starvaggi Drop Zone include:

- A relatively level area without steep slopes, rugged terrain, and large trees
- A site large enough to establish a rectangular drop zone size of 1,000 yards by 1,500 yards
- Site that can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
- Site not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

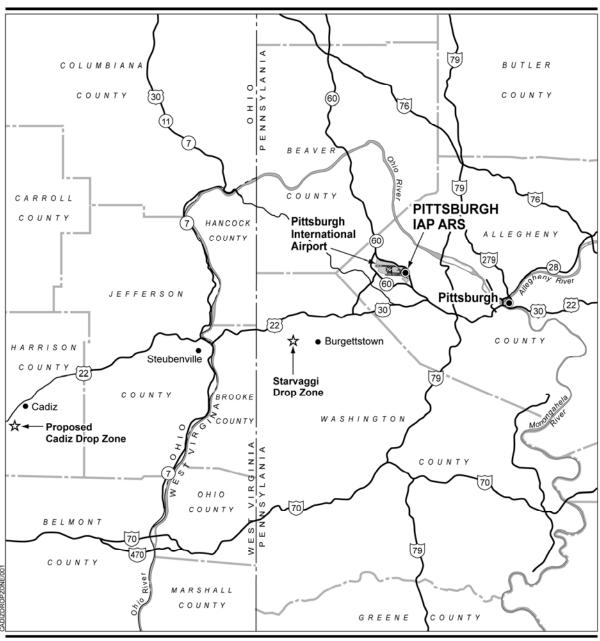
The proposed Cadiz Drop Zone meets these requirements. Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW's training capability and combat readiness.

1.2.1 Location of the Proposed Action

The proposed Cadiz Drop Zone is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1.2-2). The area proposed to be leased by the Air Force is an approximately 430-acre site on a reclaimed strip mine owned by CONSOL Energy.

1.3 SURVEY METHODOLOGY

Property categorization factors address storage and release of those substances that are regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA). These factors determine the overall property category of land and facilities. Property categories are based on the definitions included in AFI 32-7066. However, in 1996, revisions were made to property categories based on DOD guidance that revised the definition of "uncontaminated" property used in the Category 1 designation (U.S. Air Force, 1996). Uncontaminated property is defined as property where no release or disposal of hazardous or petroleum substances has occurred. Therefore, a property can be considered Category 1, even if hazardous or petroleum



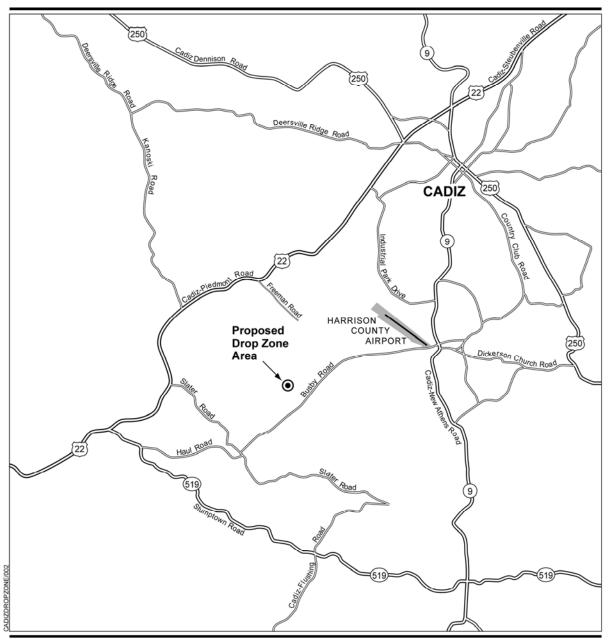
EXPLANATION

- (22) U.S. Highway
- [70] Interstate Highway
- 7 State Highway
- - State Boundary
- --- County Boundary

Pittsburgh International Airport Air Reserve Station Regional Map



Figure 1.2-1



EXPLANATION

- U.S. Highway
- (7) State Highway

Proposed Cadiz Drop Zone Area Map



Figure 1.2-2

substances are stored on the property. Under the original property category definitions, storage of hazardous or petroleum substances, even without a release, caused the property to be considered Category 2. Under the revised property category definitions, property associated with the release of a petroleum product is considered Category 2. Within this EBS, hazardous substance storage is noted, as appropriate. However, unless a release has been identified, the property is considered Category 1.

Based on an analysis of the available data, the proposed Cadiz Drop Zone property was classified into one of seven categories:

- Category 1 Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)
- Category 2 Areas where only release or disposal of petroleum products has occurred
- Category 3 Areas where release, disposal, and/or migration of hazardous substances have occurred, but at concentrations that do not require a removal or remedial response
- Category 4 Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions have been taken
- Category 5 Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions are underway, but have not yet been completed
- Category 6 Areas where release, disposal, and/or migration of hazardous substances have occurred, but remedial actions have not been implemented
- Category 7 Areas that are not evaluated or require additional evaluation.

Property in the first four categories is eligible for deed transfer (Department of Defense, 1995). In general, property in the last three categories will not be considered for transfer until the necessary actions have been taken and the property has been reclassified into one of the first four categories. Leases are permitted for property within the first four categories and would be considered on a case-by-case basis for properties within the last three categories.

Pursuant to U.S. Environmental Protection Agency (EPA) and DOD guidance, this EBS identifies property as uncontaminated even if some limited quantity of hazardous or petroleum substances was released or disposed in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include usage of common household chemicals, storage of heating fuel in base housing areas, incidental releases of petroleum

products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

Information on property categorization factors (hazardous materials and petroleum products, hazardous and petroleum waste, storage tanks and related systems, treatment systems and components, Environmental Restoration Program [ERP] sites, oil/water separators, medical or biohazardous waste, radioactive waste, pesticides, and ordnance) was reviewed to determine the presence and status of each. Each factor was first categorized based on its past or present potential for environmental concern. Then, the categories for all factors present at each location were considered to determine the overall land or facility category. The highest category would determine the overall category for the land/facility. For example, if a parcel of land had a storage tank classified as Category 2 and an ERP site classified as Category 5, the overall categorization would be a Category 5.

Disclosure factors are substances that are not regulated under CERCLA but that may cause environmental concerns. Information on disclosure factors (asbestos, polychlorinated biphenyls, radon, and lead-based paint) was reviewed. While notification of the presence of disclosure factors is not required under CERCLA Section 120(h) (1), such notification is provided to satisfy real estate transaction requirements.

1.4 APPROACH AND RATIONALE

A methodical process was followed for this EA/EBS in which available information was analyzed and conclusions were drawn about the condition of the property near Cadiz, Ohio. First, property records were reviewed to identify historic land and facility uses that may be primary indicators of potential contamination. 911 AW and CONSOL Energy personnel were interviewed, and the land was physically inspected during a visual reconnaissance survey (VRS) on October 14, 2008, to identify evidence of stressed vegetation, stained soils, unusual odors, or other issues that might indicate the presence of contamination (Appendix G-3).

1.4.1 Documents Reviewed

The records search of available documentation focused primarily on records, reports, maps, and aerial photographs maintained by the 911 AW at Pittsburgh IAP ARS and CONSOL Energy staff.

As part of the records search, historic maps (1905, 1961, 1978, and 1994) and aerial photographs (1976, 1982, 1994, and 2005) of the property were reviewed and analyzed to assist in identifying past land and facility uses and potential environmental contamination sources, and to verify other information found in the records search. Aerial photographs and

maps are provided in Appendix E. A detailed list of references used in preparing this document is presented in Appendix A.

1.4.2 Property Inspections

A VRS was conducted on October 14, 2008, to verify characteristics or features identified in the records search and to identify other potential environmental concerns related to the property. Generally, VRSs are cursory physical inspections conducted by walking around or through the areas in question. Visual site inspections are exterior and interior (walk-through) inspections, and are conducted to identify readily apparent concerns or attributes. Because the property does not contain any structures, visual site inspections (VSIs) were not conducted.

Photographs of the property are provided in Appendix F.

1.4.3 Personnel Interviews

During the meetings and the VRS, personnel at Pittsburgh IAP ARS and CONSOL Energy were interviewed to identify potential environmental concerns related to recent and historic operations at the proposed Cadiz Drop Zone, and to verify information found during the records search. A list of individuals contacted during the preparation of this EBS is provided in Appendix D. Primary contacts were made with 911 AW and CONSOL Energy personnel.

1.5 ORGANIZATION OF THE ENVIRONMENTAL ASSESSMENT AND ENVIRONMENTAL BASELINE SURVEY

This document is organized as follows:

Chapter 1.0 - Introduction: Describes the purpose, format, and content of the EA and EBS. Presents the survey methodology, and the approach and rationale used to identify and delineate environmental concerns.

Chapter 2.0 - Proposed Action and Alternatives: Describes the Proposed Action and alternatives analyzed in the EA and EBS. Also discusses the legal boundaries of the project area.

Chapter 3.0 - Affected Environment: Establishes the baseline status or environmental condition of the property at the time of the survey. Also discusses past, present, and future expectations for the property based on the Proposed Action and alternatives.

Chapter 4.0 - Environmental Impacts: Discusses the potential impacts to the property and the environment as a result of an implementation of the Proposed Action or the alternatives.

Chapter 5.0 - Findings for Adjacent Properties: Describes the approach used to conduct the adjacent property evaluation, and presents the results from federal and state agency records and other database searches and visual inspections.

Chapter 6.0 - Cumulative Effects of the Action: Discusses the potential effects from an implementation of the Proposed Action or alternatives, based on the past, present, and reasonably foreseeable future actions that take place on the property.

Chapter 7.0 - Applicable Regulatory Compliance Issues: Presents compliance issues for environmental resources that pose a potential concern to the property.

Chapter 8.0 - Presents property-specific information derived from the records search and site inspections, categorizes the level of contamination associated with the subject property, and identifies the location of uncontaminated property. This chapter also discloses data gaps and requirements for further investigation that are needed to close out environmental concerns.

Chapter 9.0 - Recommendations: Presents recommendations for areas of environmental concern identified in the EBS.

Chapter 10.0 - Irreversible and Irretrievable Commitment of Resources: Discusses the potential of the Proposed Action and alternatives to use nonrenewable resources.

Appendix A: References

Appendix B: Terms

Appendix C: List of Preparers

Appendix D: Persons and Agencies Contacted

Appendix E: Maps and Aerial Photographs

Appendix E-1: Historical Topographic Map Report

Appendix E-2: Aerial Photo Decade Package

Appendix F: Site Photos

Appendix G: Site Inspection Documents

Appendix G-1: Records Search Report

Appendix G-2: Trip Report

Appendix G-3: Visual Site Inspection Forms

Appendix G-4: Environmental Liens Search

Appendix H: EBS Certification

Appendix I: Air Emissions Calculations

Appendix J: Regulatory Consultation

Appendix K: Interagency and Intergovernmental Coordination for Environmental

Planning and Public Comments and Responses

2.0 ALTERNATIVES INCLUDING THE PROPOSED ACTION

This chapter describes the Proposed Action and alternatives for the establishment of a new drop zone for the 911 AW. It also provides a discussion of the alternatives considered, but eliminated from further consideration. The following alternatives are analyzed.

Under the **Proposed Action**, the 911 AW would lease property owned by CONSOL Energy in Harrison County, Ohio, for use as a drop zone for training.

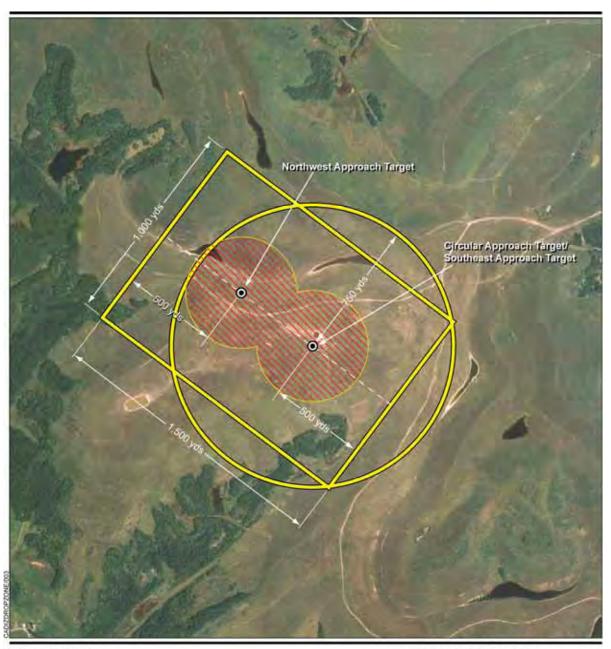
Under the **No-Action Alternative**, the 911 AW would not lease the CONSOL Energy property and would continue to use the Starvaggi Drop Zone as their only airdrop training site.

2.1 PROPOSED ACTION

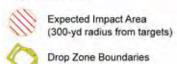
The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio (see Figure 1.2-2). The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. The project entails lease of the site from CONSOL Energy by the AFR.

The proposed drop zone consists of a circular drop zone superimposed on a rectangular drop zone. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis (Figure 2.1-1). The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone. The dimensions of the proposed drop zone are those required by AFI 13-217, *Drop Zone and Landing Zone Operations*, for the airdrop activities proposed for this site. The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Because the 911 AW has nine C-130 aircraft, a maximum of all nine aircraft could be used during a single airdrop training event, but this scenario is considered highly unlikely and would not occur during routine events. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. During transit between Pittsburgh IAP and the drop zone, aircraft would fly at



EXPLANATION



Proposed Cadiz Drop Zone

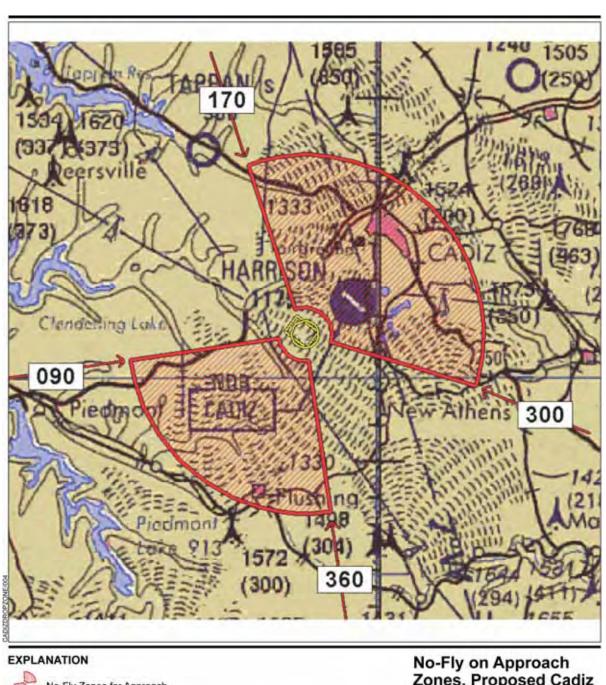


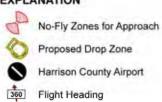
Figure 2.1-1

approximately 2,500 feet above mean sea level (MSL) which, due to varying ground elevations, maintains a minimum altitude of 500 feet above ground level (AGL). Aircraft would not usually fly directly to the drop zone from the ARS, but would fly a training route. During drops, aircraft would fly between 500 and 1,500 feet AGL. Aircraft would be at the designated drop altitude, whether higher or lower than the transit altitude, at approximately 10 miles from the drop zone on approach and would return to the transit altitude 5 miles after leaving the drop zone. Aircraft speeds during drops would range from 125 to 150 knots. During a typical drop zone training day, 12 airdrop training events would be conducted. These would be conducted as part of three separate training flights, generally consisting of a morning, an afternoon, and an evening flight. During each of the three trips, each of the two aircraft would fly an approximately 45-minute training route, make a drop, fly another approximately 45-minute training route, then make a second drop before returning to the ARS. Each trip would take approximately 2 hours and cover approximately 120 nautical miles.

Aircraft approach would be limited to along a generally northwesterly–southeasterly orientation between 090 degrees (°) and 170° and between 300° and 360° (Figure 2.1-2). No fly zones for approach would be established in all other directions in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. All aircraft would exit the drop zone at a direction away from the airport, between 135° and 315°.

Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as "actual loads" would be dropped only 2-3 times per month. These would be container delivery systems, which weigh approximately 800 lbs, consisting of plywood pallets loaded with plastic water barrels; and heavy equipment, which weighs approximately 3,200 lbs, consisting of aluminum pallets loaded with concrete blocks. For each drop, a target would be placed on the drop zone. This is a raised angle marker consisting of an orange tarp angled to face the direction of the incoming aircraft. During night drops, battery-operated lights would be used. The target site may be marked by concrete blocks left in place between drops, but the target and lights would be set up and dismantled for each drop. Targets would either be in the center of the circular portion of the drop zone or would be along the centerline of the rectangular portion, shifted from the center towards the approach direction of the aircraft. The target would be designated at 500 yards from the boundary of the approach end of the drop zone. This is in accordance with the requirement in AFI 13-217 that a minimum distance of 1,000 yards beyond the target be within the drop zone.





Zones, Proposed Cadiz **Drop Zone**



Note: Axis drawn along magnetic north.

Figure 2.1-2

A 2-person crew using pickup trucks would conduct material recovery (e.g., sandbags and parachutes) after training bundle drops. Material recovery after actual load drops would be conducted by a 6-person crew and would typically require use of two pickup trucks, a forklift, and a flatbed truck.

The site would be certified for use by paratroopers. However, paratrooper drops are not currently planned as part of routine activities at the proposed drop zone, but would likely be conducted only as part of special training events. These are not expected to be conducted more than approximately once every two years. Paratrooper personnel dropped at the site would be transported back to Pittsburgh IAP ARS via military convoy.

Drop zone operations would generally be conducted between 7 a.m. and 11 p.m. and could occur any day of the week. However, activities would occur more often on weekdays while Saturday and Sunday activities would generally only occur approximately once per month. The drop zone boundary would not be fenced, but the entire site is located within a fenced area with a locked gate. Prior to conducting any drop activities, a drop zone safety officer would be on the ground at the site to verify that no persons are present on the drop zone. The safety officer would be in radio contact with the pilots.

The property is currently used for cattle grazing. This would not cease during the Air Force lease. Cattle would not need to be moved from the site during the training bundle drops that would occur each week. However, 2- 3 times per month during actual load drops, cattle would need to be cleared from the drop zone area. The AFR would coordinate with the cattle owner on dates scheduled for actual load drops so that the cattle can be moved in advance.

The AFR would coordinate with the Federal Aviation Administration (FAA) flight service station to issue a local Notice to Airmen (NOTAM) when drops are scheduled. Air drops would be limited by weather conditions that allow visual confirmation of the target from the aircraft. No drops would be conducted under weather conditions that would prevent the flight crew from seeing the target, such as low clouds or fog.

No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control. However, should vegetation on the active part of the drop zone become too tall, its height may need to be controlled by mowing. The AFR would be responsible for conducting any mowing activity deemed necessary for drop zone site maintenance.

Use of the Cadiz Drop Zone would generally replace use of the existing drop zone currently used by the 911 AW, the Starvaggi Drop Zone; however, the 911 AW would retain the Starvaggi Drop Zone and maintain it as an alternate airdrop training site. Switching activity from the Starvaggi Drop Zone to the proposed Cadiz Drop Zone would not result in any change in aircraft or other activity at the Pittsburgh IAP ARS. Aircraft would have to fly 7 minutes longer and 25 nautical miles farther to reach the Cadiz Drop Zone than they currently do to reach the Starvaggi Drop Zone.

2.2 ALTERNATIVES

For purposes of this EA, the No-Action Alternative was considered. This is described below.

2.2.1 No-Action Alternative

Under the No-Action Alternative, the AFR would not lease the property from CONSOL Energy to establish the new Cadiz Drop Zone. Airdrop training would continue at the Starvaggi Drop Zone. There would be no change in existing conditions. Because of limitations on use of the Starvaggi Drop Zone, continued reliance on this site as its only drop zone training site would limit the 911 AW's training capability and combat readiness and is not consistent with the purpose and need for the proposed action. However, it is evaluated in this EA because it is required by NEPA regulations (40 CFR 1502.14(d)).

2.2.2 Alternatives Considered but Eliminated from Further Consideration

The site selection criteria for a drop zone that meets the 911 AW airdrop training requirements include:

- location within 120 miles/2 hours driving time of Pittsburgh IAP ARS to minimize travel time to and from the site for material recovery
- relatively level and free of steep slopes and large trees
- large enough to establish a rectangular drop zone 1000 yards wide and 1500 yards long
- can be surveyed for a circular drop zone with a minimum radius of 750 yards
- located away from populated areas
- can support training 2-3 times per week
- not have airspace restrictions limiting airdrop altitudes and airspeeds

Four drop zone sites located within 120 miles of Pittsburgh IAP ARS were considered for the 911 AW airdrop training needs, but were eliminated for other reasons. These are discussed below.

Expand the Starvaggi Drop Zone. This drop zone is currently the only drop zone of the 911 AW. Expansion of this drop zone to meet the 911 AW airdrop training needs was eliminated as an alternative because the site does not meet the following selection criteria:

- This site is only 1100 yards long by 800 yards wide and cannot be expanded to the minimum size required due to steep slopes on adjacent areas
- It can only support run-ins from one direction, so cannot be surveyed as a circular drop zone
- It has a large number of trees 20 feet or higher. Removal of these trees could result in environmental impacts
- It is located within an airspace associated with Pittsburgh IAP that has restrictions which limit airdrop altitudes and air speeds.

Use the Slagle Drop Zone. This existing drop zone is located at the Ravenna Arsenal, Ohio. It is currently used by the 910 AW located at Youngstown, Ohio. Because this drop zone is currently being routinely used by the 910 AW for their training needs, it is not available to be used by the 911 AW at the frequency requirements of 2-3 times per week. Therefore, it was eliminated from further consideration.

Use the Tater Drop Zone. This existing drop zone is located in Indiana County, Pennsylvania. It is also currently used by the 910 AW. This drop zone does not meet the minimum size requirements and because it is used by the 910 AW for their training, it is not available to the 911 AW for the required training frequency. Therefore, it was eliminated from further consideration.

Reestablish the Mingo Drop Zone. This is a former drop zone located in Jefferson County, Ohio. It was leased by the 911 AW until December 1997 when the land was returned to the Ohio Department of Natural Resources (DNR). The site is now part of the Fernwood State Forest. Trees have been planted on it and it is no longer available for use as a drop zone. Therefore, it was eliminated from further consideration.

2.3 BOUNDARIES OF THE PROPERTY/SURVEY AREA

2.3.1 Legal Description of the Property to be Transferred

The proposed Cadiz Drop Zone is a 430-acre area that would be leased from CONSOL Energy. The leased area would occupy portions of 5 parcels with Assessor Parcel Numbers (APNs) 02-0000212.000, 02-0000217.000, 04-0000070.000, 04-0000072.000, and 04-0000094.000. These APNs are located in Township 10, North, Range 5 West, Sections 13, 14, 19, and 20. The proposed lease area is referred to as the Cadiz Drop Zone in this document.

2.3.2 Map

A map of the property is provided in Figure 2.1-1.

3.0 AFFECTED ENVIRONMENT

3.1 ENVIRONMENTAL SETTING

3.1.1 Topographic Features

Based on the latest United States Geological Survey (USGS) topographic map for the Flushing Quadrangle (1994), elevations on the Cadiz Drop Zone range from approximately 1,100 to 1,300 ft above MSL. However, based on observation made during the VRS, because of strip mining and subsequent grading conducted as part of mine site reclamation, the current contours of the property are not the same as depicted on the map. As observed during the VRS of the property, the central portion of the property is fairly level. This area slopes down to areas of lower elevations to the north, south, and southwest. To the north, the topography slopes down into an east-west trending valley that contains the two ponds on the property. The north side of this valley is an area of higher elevation than the central area. A ridge of higher land is also located on the eastern edge of the property. To the south and southwest, the topography slopes down from the central area to the areas of lowest elevation on the property in the southern and western corners.

3.1.2 Chain of Title for the Past 50 Years

The Cadiz Drop Zone is located on portions of several APN parcels currently owned by CONSOL Energy. These parcels are part of a property conveyed by deed from Consolidation Coal Company, a Delaware Corporation to Consolidation Coal Company, a Pennsylvania Corporation on September 15, 1966. Consolidation Coal Company (Pennsylvania) was known as Pittsburgh Consolidation Coal Company prior to 1958. The property was conveyed to Pittsburgh Consolidation Coal Company, or to Consolidation Coal Company (Pennsylvania) after the name change in 1958, by multiple owners between 1946 and 1965.

3.1.3 Utilities Available to the Site

No utilities are present on or adjacent to the Cadiz Drop Zone.

3.2 LAND USE

3.2.1 Current Land Use

The Cadiz Drop Zone and adjacent areas consist of a reclaimed strip mine that is currently used for cattle grazing. Neither Cadiz Township nor Harrison County have any zoning or land use planning designations applicable to the property (Earth Tech, Inc., 2008).

3.2.2 Historic Land Use

According to the current property owner, CONSOL Energy, the Cadiz Drop Zone is an area that was mined under 2 separate permits. Mining occurred from approximately the early to mid 1980s to the early to mid 1990s. Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s. After reclamation, bond releases occurred in 3 phases: Phase 1 – after completion of site grading; Phase 2 – after completion of seeding; and Phase 3 (Final Release) – after 5 years of maintenance. The final bond release has been granted for this property (Earth Tech, Inc., 2008).

3.3 AIRSPACE

Navigable airspace is a limited national resource that Congress has charged the FAA to administer in the public interest as necessary to ensure the safety of aircraft and its efficient use. Although the FAA must protect the public's right of freedom of transit through the airspace, full consideration shall be given to all airspace users, to include national defense; commercial and general aviation; and space operations (Federal Aviation Administration, 2008). The FAA manages commercial and general aviation activity within navigable airspace, and the military manages military aviation activity with FAA oversight.

The proposed Cadiz Drop Zone activities would occur within airspace currently used by the 911 AW. Current 911 AW airspace activities are described and analyzed in the *Environmental Assessment of the Training Operations Conducted by the 911th Airlift Wing, Pittsburgh International Airport Air Reserve Station, Pennsylvania* (December, 2000). Harrison County, Ohio, is located beneath the 911 AW's Low Altitude Tactical Navigation Area (LATN) B. A LATN is normally an area of navigable airspace that permits most types of required training activities and random routing. The 911 AW uses LATN B for low-altitude tactical navigation. C-130H aircrews fly at altitudes down to 500 ft AGL and at speeds not exceeding 250 knots indicated airspeed (approximately 285 miles per hour).

The 911 AW also trains along Station Keeping Equipment (SKE) and Tactical (TAC) routes which pass over Harrison County. C-130 aircrews use SKE routes for formation flying, usually up to 4 aircraft. TAC routes are used for low-level training and approach to the Starvaggi Drop Zone. Altitudes flown on both SKE and TAC routes vary between 500 and 4,000 feet AGL.

Harrison County Airport is located approximately 2 miles to the northeast of the proposed drop zone. It also underlies or is adjacent to 911 AW SKE and TAC routes. It is an uncontrolled (no control tower) public airport with a single runway oriented northwest-southeast (134/314 degrees magnetic).

The 911 AW has a Military Airspace Collision Avoidance (MACA) plan that includes procedures for clearing local airspace prior to conducting air drops.

3.4 NOISE

Noise can be described as unwanted sound. While most people conduct their daily lives in an environment full of sounds, some or all of these sounds can be generally undesirable and may detract from the quality of the human environment. A number of factors affect sound as it is perceived by the human ear. These factors include the actual level of the sound, the frequencies involved, the period of exposure, and changes or fluctuations in sound levels during exposure. Noise levels are measured in units called decibels (dB). Because the human ear cannot perceive all pitches or frequencies equally well, noise measures are adjusted to compensate for the human lack of sensitivity to low-pitched and high-pitched sounds. This adjusted unit is known as the A-weighted decibel (dBA). The A-weighted network deemphasizes both very low- and very high-pitched sounds, so measured levels better correlate with human perception.

Human response to changes in noise levels depends on a number of factors, including the quality of the sound, the magnitude of the changes, the time of day at which the changes take place, whether the noise is continuous or intermittent, and the individual's ability to perceive the changes. Human ability to perceive changes in noise levels varies widely with the individual, as does response to the perceived changes. A change in noise level of less than 3 (three) dBA is barely perceptible to most listeners while a 10 dBA change normally is perceived as a doubling (or halving) of noise. Moreover, if sound intensity doubles, the noise level will be increased by 3 dBA. These thresholds allow for estimation of an average individual's probable perception of, and reaction to, changes in noise levels.

It is often useful when measuring noise levels to take into account the difference in perception and response between daylight, waking hours and nighttime, sleeping hours. To this end, a descriptor called the day-night noise level (DNL) has been developed: DNL is defined as the A-weighted average sound level during a 24-hour period, with a 10-dBA penalty weighting applied to noise occurring during nighttime (10 pm to 7 am). The 10-dBA weighting accounts for the fact that noises at night are more perceptible because of the lesser overall sound level.

The DNL descriptor has been recognized by the Department of Housing and Urban Development (HUD), the U.S. EPA, the FAA, and DOD as one of the most appropriate metrics for estimating the degree of nuisance or annoyance that increased noise levels would cause in residential neighborhoods. Therefore, DNL has been selected as the appropriate noise descriptor for this analysis.

In June 1980, the Federal Interagency Committee (FIC) on Urban Noise published guidelines relating DNL to compatible land uses. This committee was composed of representatives of DOD, the Department of Transportation, HUD, the U.S. EPA, and the Veterans Administration. Since the issuance of these guidelines, federal agencies have generally adopted them for their noise analyses.

Ambient background noise levels in the vicinity of the proposed drop zone are typical of a rural environment. It is expected that the project neighborhood can be considered a relatively quiet rural area, but strip mining, traffic, and occasional aircraft overflights add noise to the neighborhood intermittently.

3.5 AIR QUALITY

Air quality in a given location is defined by the concentration of various pollutants in the atmosphere, generally expressed in units of parts per million (ppm) or microgram per cubic meter (μg/m³). Air quality is determined by the type and amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. The significance of a pollutant concentration is determined by comparing it to federal and/or state ambient air quality standards. The federal Clean Air Act (CAA), 42 U.S.C. 7401-7671(q), amended in November 1990, stipulates that emissions sources must comply with the air quality standards and regulations that have been established by federal, state, and county regulatory agencies. These standards and regulations focus on (1) the maximum allowable ambient pollutant concentrations and (2) the maximum allowable emissions from individual sources.

The U.S. EPA established the federal standards for the permissible levels of certain pollutants in the atmosphere. The National Ambient Air Quality Standards (NAAQS) have been established for seven criteria pollutants: ozone, nitrogen dioxide (NO₂), particulate matter equal to or less than 10 microns in diameter (PM₁₀), particulate matter equal to or less than 2.5 microns in diameter (PM_{2.5}), carbon monoxide (CO), sulfur dioxide (SO₂), and lead. Ozone is a secondary pollutant formed in the atmosphere by photochemical reactions of previously emitted pollutants, or precursors. The ozone precursors are nitrogen oxide (NO_x) and volatile organic compounds (VOCs). The NAAQS are outlined in Table 3.4-1.

The U.S. EPA designates all areas of the United States as having air quality better than (attainment) or worse than (non-attainment) the NAAQS. Pollutants in an area may be designated as unclassified when there are insufficient ambient air quality data for the U.S. EPA to form a basis for an attainment status. The non-attainment classifications for CO and PM₁₀ are further divided into moderate and serious categories. Ozone non-attainment is divided into marginal, moderate, serious, severe, and extreme categories.

Table 3.4-1. National Ambient Air Quality Standards^(a)

| Pollutant | Averaging Time | Primary ^(b,c) | Secondary ^(b,d) | | |
|-------------------|---------------------------|--|--|--|--|
| Ozone | 8-hour | 0.075 ppm ^(e) (147 μg/m ³) | Same as primary standard | | |
| Carbon monoxide | 8-hour | $9 \text{ ppm} $ (10 mg/m^3) | | | |
| | 1-hour | $35 \text{ ppm} $ (40 mg/m^3) | | | |
| Nitrogen dioxide | Annual Arithmetic Mean | $0.053 \text{ ppm} \ (100 \ \mu\text{g/m}^3)$ | Same as primary standard | | |
| Sulfur dioxide | Annual Arithmetic Mean | 0.03 ppm $(80 \mu\text{g/m}^3)$ | | | |
| | 24-hour | 0.14 ppm (365 µg/m ³) | | | |
| | 3-hour | | 0.5 ppm $(1,300 \mu\text{g/m}^3)$ | | |
| | 1-hour | | | | |
| PM_{10} | 24-hour | $150 \mu \text{g/m}^3$ | Same as primary standard | | |
| PM _{2.5} | Annual Arithmetic Mean | $15 \mu g/m^3$ | Same as primary standard | | |
| | 24-hour | $35 \mu g/m^3$ | Same as primary standard | | |
| Lead | Rolling 3-month average | $0.15 \mu g/m^3$ | Same as primary standard | | |
| | Quarterly | $1.5 \mu g/m^3$ | Same as primary standard | | |

Notes: (a) National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when it is not exceeded more than once per year, averaged over 3 years. For PM_{2.5}, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current federal policies.

- (b) Concentrations are expressed first in units in which they were promulgated. Equivalent units given in parentheses are based on a reference temperature of 25 degrees Celsius (°C) and a reference pressure of 760 millimeters (mm) of mercury. All measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 mm of mercury (1,013.2 millibar); ppm in this table refers to parts per million by volume, or micromoles of pollutant per mole of gas.
- (c) National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- (d) National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of pollutant.
- (e) 2008 standard. The 1997 standard of 0.08 ppm remains in place for implementation purposes until the EPA undertakes rulemaking to address the transition to the 2008 standard.

 μ g/m³ = micrograms per cubic meter mg/m³ = milligrams per cubic meter

 $PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter PM_{10} = particulate matter equal to or less than 10 microns in diameter ppm = parts per million

For purposes of the air quality analysis, the region of influence consists of the airshed that the proposed Cadiz Drop Zone property is within, Harrison County, which covers all cities, towns, and unincorporated areas within Harrison County.

Regional Air Quality. Harrison County has been designated as an attainment area for all criteria pollutants (U.S. EPA Greenbook, 2008).

Title 40 CFR 51 Part 93, General Conformity, requires federal actions to conform to any State Implementation Plan (SIP) approved or promulgated under Section 110 of the CAA. An air conformity applicability analysis and possibly a formal air conformity determination are required for federal actions in nonattainment or maintenance areas. The general conformity rule does not apply because Harrison County is classified as an attainment area for the NAAQS.

As an attainment area, Harrison County is regulated under the Prevention of Significant Deterioration (PSD) program authorized by the CAA Part C Sections 160-169. PSD areas require that owners and/or operators of new or modified stationary sources obtain a PSD permit prior to construction of a major source situated in attainment or unclassified areas. A major source is defined by PSD regulations as being a specific type of stationary source listed by the U.S. EPA that has a potential of emitting 100 tons per year (tpy) or more of a regulated pollutant. A source not listed by the U.S. EPA may also be considered major if it has the potential to emit 250 tpy or more of a regulated pollutant. PSD permitting criteria would be applicable if the potential emissions are 250 tpy or more of a regulated pollutant. Because no stationary sources of air emissions are associated with the establishment and operation of the Cadiz Drop Zone, PSD permitting does not apply to this project. In addition, there are no Class I areas within 10 kilometers of the property.

Currently, air emissions associated with the property are limited to engine exhaust and fugitive dust generated by infrequent ground vehicle use on the unpaved roads to and on the property. There are no stationary sources.

Greenhouse Gas Emissions. Greenhouse gases are compounds found naturally in the Earth's atmosphere. The compounds trap infrared heat converted from the sunlight inside Earth's atmosphere. In this way, greenhouse gases act as insulation, and contribute to the maintenance of global temperatures. As the levels of greenhouse gases increase, however, the result is a greater overall temperature on Earth. As 83 percent of greenhouse gases are carbon dioxide (CO₂) emissions, this EA considers CO₂ as the representative greenhouse gas emission and predicts CO₂ levels as appropriate for disclosure purposes.

3.6 SAFETY

Aspects of safety relevant to this EA are limited to those associated with airdrop activities. Safety aspects associated with the low-level C-130 aircraft training that would be conducted prior to and after airdrop activities are considered part of the ongoing aircraft training flights that are conducted in the area. These were described and analyzed in the EA prepared for training operations conducted by the 911 AW (Headquarters Air Force Reserve Command, 2000). AFI 13-217, *Drop Zone and Landing Zone Operations*, prescribes the procedures, techniques, and requirements for operating drop and landing zones. It includes criteria for drop zones and airdrop procedures to ensure safe operations. The 911 AW currently follows standard drop zone safety procedures at the Starvaggi Drop Zone. These include ensuring the drop zone is clear prior to air drops, maintaining radio contact with aircraft and a system of physical ground-to-air signals as backup, and implementing security measures along access roads to advise any traffic that air drops are in progress.

3.7 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

3.7.1 Results of Database Search

Records maintained by federal, state, and tribal agencies were searched to identify reported sites storing hazardous materials and/or generating hazardous waste in the vicinity of the Cadiz Drop Zone. These records included locations of facilities with USTs, facilities with leaking USTs, and uncontrolled or abandoned hazardous waste sites. The agency records search consisted of a review of computerized federal, state, and tribal environmental compliance databases.

The search of federal, state, and tribal databases was performed focusing on the proposed Cadiz Drop Zone (Environmental Data Resources, Inc., 2008a) (Appendix G-1). A list and description of the databases included in the search and the distances searched for each database are provided in the database search results report. These databases were investigated with due diligence based on the minimum search distances recommended by the American Society for Testing and Materials (ASTM) guidelines for conducting Phase I site assessments (American Society for Testing and Materials, 2005). No adjacent sites were identified within the respective search area for the databases.

3.7.2 Hazardous Substances

3.7.2.1 Hazardous Material and Petroleum Products

Hazardous materials and petroleum products are not present or stored on the Cadiz Drop Zone. It is assumed that the present tenant on the property uses petroleum products (gasoline/diesel) for transportation purposes. A review of available records and interviews

with CONSOL Energy personnel did not indicate the past storage of hazardous materials or petroleum products; however it is assumed that some hazardous materials and petroleum products were used in the equipment used to mine the land.

3.7.2.2 Hazardous and Petroleum Waste

Hazardous and petroleum waste are not present, stored, or used on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the past storage of hazardous or petroleum waste; however it is possible that hazardous and petroleum waste could have been generated when the land was being mined.

3.7.3 Environmental Restoration Program

The ERP was established to identify, characterize, and remediate CERCLA related contamination on Air Force installations. The program is designed to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment. The property is not owned by the Air Force nor is it currently used by or controlled by the Air Force. No ERP sites are present on the Cadiz Drop Zone.

3.7.4 Storage Tanks

No aboveground storage tanks, underground storage tanks, or pipelines (including hydrant fueling and transfer systems) are present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of storage tanks.

3.8 OIL/WATER SEPARATORS

No oil/water separators are present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of oil/water separators on the property.

3.9 SOLID WASTE

No solid waste is generated on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of solid waste on the property.

3.10 MEDICAL OR BIOHAZARDOUS WASTE

No evidence of medical or biohazardous waste is present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of medical or biohazardous waste on the property in the past.

3.11 RADIOACTIVE WASTE

No evidence of radioactive waste is present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of radioactive waste on the property in the past.

3.12 WASTEWATER TREATMENT, COLLECTION, AND DISCHARGE

No evidence of wastewater treatment, collection, or discharge is present on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of wastewater on the property in the past.

3.13 PESTICIDES

No evidence of pesticide treatment was present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of pesticides on the property.

3.14 ORDNANCE

No evidence of ordnance was present on the property. Based on its past use as a strip mine it is possible that some explosives were used on the property and adjacent areas during the mining process; explosives could have been used. Because of subsequent mine site reclamation, the presence of ordnance or ordnance-related contaminants are not expected.

3.15 ASBESTOS

No structures are present on the property. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures on the property; therefore, asbestos was not used on the property in the past.

3.16 POLYCHLORINATED BIPHENYLS

No structures or transformers are present on the Cadiz Drop Zone. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures or transformers on the property; therefore, polychlorinated biphenyls were not used on the property in the past.

3.17 RADON

Radon is a naturally occurring, colorless, and odorless radioactive gas produced by radioactive decay of naturally occurring uranium. Radon that is present in soil can enter a building through small spaces and openings, accumulating in enclosed areas such as basements. There are no federal or state standards regulating radon exposure at the present time.

The U.S. EPA has prepared a map of radon zones for the United States that assigns each county to one of three zones based on radon potential. Predicted indoor radon levels are highest in Zone 1 and lowest in Zone 3. Harrison County, Ohio, is designated as Zone 1. Predicted average indoor radon levels in Zone 1 areas are over 4 pCi/l (Environmental Data Resources, Inc., 2008a). However, radon potential in a county can vary. The property does not have any structures; therefore there are no concerns with indoor radon levels.

3.18 LEAD-BASED PAINT

No structures are present on the property. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures on the property; therefore, lead-based paint was not used on the property in the past.

3.19 EARTH RESOURCES

Harrison County is situated within the Allegheny Plateaus Section of the Appalachian Plateaus Province (Brockman, 1998). Bedrock exposed at the surface in Harrison County belongs to the Pennsylvanian and Permian systems. Rocks of the Conemaugh Group cover approximately two thirds of the county. This group belongs to the Pennsylvanian system and includes interbedded dirty, micaceous sandstones, shales, siltstones, thin, fine-grained limestones, and minor coals. Higher in the section, the rocks tend to include more fine grained mudstones and claystones (Angle and Walker, 2002).

The following information on soils is derived from the Soil Survey of Harrison County, Ohio (U.S. Department of Agriculture, 1998). The soil survey uses aerial photographs from 1981 to map soil types. Because the property and adjacent areas have been reclaimed since the time these aerial photographs were taken, current soil types on the property may not be the same as indicated in the soil survey report.

Soils in the area including the property belong to the Morristown-Guernsey Association. These consist of deep and very deep, nearly level to very steep, well drained and moderately well drained soils on uplands that formed in material mixed by surface mining and in

residuum and colluvium derived from shale, siltstone, and limestone. This association is in and around extensive areas that have been surface mined for coal. In some areas it consists of steep and very steep banks of spoil material that has been deposited parallel to a highwall, below a remnant of the original landscape. In other areas the spoil material has been regraded to eliminate the highwall or the entire landscape above the coal has been moved during mining and then regraded. These areas generally are regraded to a nearly level to moderately steep slope.

Soils mapped on the Cadiz Drop Zone are primarily Morristown with some areas of Guernsey and Orville soils. Morristown soils are very deep and well drained. They are in nearly level to very steep areas that have been surface mined for coal. They are subject to slippage in moderately steep to very steep areas. Some areas are bouldery or stony. Permeability is moderately slow. Guernsey soils are deep and very deep and are moderately well drained. They are on strongly sloping to steep benches and side slopes, above and below the Morristown soils. Guernsey soils are subject to slippage in moderately steep and steep areas. Permeability is slow or moderately slow. Orrville soils are somewhat poorly drained. They are on nearly level flood plains and are subject to occasional flooding. Permeability is moderate. Orrville soils are mapped only in the southern corner of the property.

3.20 WATER RESOURCES

3.20.1 Hydrogeologic Features

In Harrison County, the Flushing Escarpment, a major bedrock ridge situated in the eastern fourth of the county, serves as a major drainage divide separating the stream flow east to the Ohio River and west to the Tuscarawas River (Angle and Walker, 2002). Drainages near the property flow to the South Fork and Brushy Fork. These streams flow westerly to Clendening Lake which empties into Stillwater Creek, which drains into the Tuscarawas River.

Water resources on the Cadiz Drop Zone consist of two ponds created as part of mine reclamation and a small stream in the southern corner (Earth Tech, Inc., 2008).

3.20.2 Drinking Water Quality

There are no utilities provided to the property, including drinking water. Therefore, drinking water quality is not relevant to this site.

3.20.3 Groundwater

Ground water in Harrison County is obtained from both unconsolidated (alluvial) and consolidated (bedrock) aquifers. Stillwater Creek and Conotton Creek contain thin sand and gravel interbedded with thicker sequences of finer-grained lacustrine and alluvial deposits.

Yields up to 25 gallons per minute are obtained from these sandy lenses. Other tributaries in the county contain deposits that are either too thin or fine-grained to constitute sustainable aquifers. These fine-grained deposits more likely help provide extra recharge to the underlying bedrock (Angle and Walker, 2002).

Yields from the consolidated, bedrock aquifers throughout the county tend to be low. Yields typically tend to be especially poor along ridge tops. Bedrock yields less than 5 gallons per minute for aquifers developed in the Permian, Conemaugh, and Monongahela groups. Aquifers developed in the Allegheny group potentially yield approximately 10 gallons per minute. Yields were found to be approximately 10 gallons per minute around Cadiz Township (Angle and Walker, 2002).

A review of records indicated the presence of a well (OHD 100000037968) located near the center of the property (EDR, 2008a). Interviews with Consol Energy personnel indicated that the well most likely no longer exists, due to mining activities.

3.21 BIOLOGICAL RESOURCES

The property is located within the Monongahela Transition Zone of the Western Alleghany Plateau Ecoregion. Potential natural vegetation in this ecoregion consists of mixed mesophytic and mixed oak forest (U.S EPA, 2008). The following discussion of biological resources on and adjacent to the property is based on observations made during the VRS conducted on 14 October 2008.

The majority of the property is on a reclaimed strip mine. The mined area has been graded and revegetated and is currently a grassland used for cattle grazing. The vegetation consists primarily of grasses and legumes (e.g., clover, vetch) with some other forbs, including *Aster* sp., Queen Anne's lace (*Daucus carota*), chicory (*Cichorium intybus*), goldenrod (*Solidago* sp.), and teasel (*Dipsacus fullonum*). A few small single cottonwood (*Populus deltoides*) and black locust (*Robinia pseudoacacia*) trees are present in the grassland area. Two small wooded areas, located at the western and southern edges of the property occupy areas that were probably not mined. Tree species identified in the woodland include sycamore (*Platanus occidentalis*), black locust, sugar maple (*Acer saccharum*), silver maple (*Acer saccharinum*), cottonwood, ash (*Fraxinus* sp.), and black walnut (*Juglans nigra*). Common under story plants in the woodland include poison ivy (*Toxicodendron radicans*), brambles (Rubus sp.), and bush honeysuckle (*Lonicera sp*). Two areas of cattails (*Typha* sp.) and willows (*Salix* sp.) are adjacent to the southern woodland area (Earth Tech, Inc., 2008).

Wildlife species observed were white-tail deer (*Odocoileus virginianus*) and several bird species [(mallard (*Anas platyrhynchos*), northern harrier (*Circus cyaneus*), black vulture (*Coragyps atratus*), turkey vulture (*Cathartes aura*), American kestrel (*Falco sparverius*), American crow (*Corvus brachyrhynchos*), northern flicker (*Colaptes auratus*), and yellowrumped warbler (*Dendroica coronata*)]. Domestic cattle were observed only in adjacent areas, but signs of cattle grazing, including droppings and heavy trampling in wet areas, were evident on the property (Earth Tech, Inc., 2008).

3.21.1 Wetlands/Floodplains

Wetlands are defined as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (Federal Interagency Committee for Wetland Delineation, 1989). Wetlands are regulated under Section 404 of the Clean Water Act (CWA) and Executive Order (EO) 11990 (Protection of Wetlands).

Potential wetlands on the property have not been delineated.

Two ponds are present in the northern portion of the property. These appear to be artificial water bodies created during site reclamation. Two areas of cattails (wetland obligate species) are present on the property. Near the center of the property a small area (less than ¼ acre) appeared as a dried puddle during the VRS. Although this dry puddle is generally barren and has been heavily trampled by cattle, a few clumps of rushes (*Juncus* sp.) (wetland obligate species) grow in this area (Earth Tech, Inc., 2008).

A small stream flows along the edges of the woodland areas located on the western and southern portion of the drop zone (Earth Tech, Inc., 2008).

3.21.2 Protected Species

According to the U.S. Fish and Wildlife Service (USFWS), the only federally listed species recorded for Harrison County and having the potential to occur within the drop zone area is the federally endangered Indiana bat (*Myotis sodalis*) (U.S. Fish and Wildlife Service, 2008). Focused surveys for the presence of this species were not conducted as part of this EA.

Indiana bats hibernate during winter in caves or, occasionally, in abandoned mines (hibernacula). For hibernation, they require cool, humid caves with stable temperatures, under 50° F but above freezing (U.S. Fish and Wildlife Service, 2007).

Hibernation is an adaptation for survival during the cold winter months when no insects are available for bats to eat. Bats must store energy in the form of fat before hibernating. During

the six months of hibernation the stored fat is their only source of energy. If bats are disturbed or cave temperatures increase, more energy is needed and hibernating bats may starve (U.S. Fish and Wildlife Service, 2007).

After hibernation, Indiana bats migrate to their summer habitat in wooded areas where they usually roost under loose tree bark on dead or dying trees. During summer, males roost alone or in small groups, while females roost in larger groups of up to 100 bats or more. Indiana bats also forage in or along the edges of forested areas (U.S. Fish and Wildlife Service, 2007).

The Ohio DNR implements and maintains Ohio's Natural Heritage Program, which supplies information concerning rare or endangered species occurrence data. The Ohio DNR was contacted as part of this analysis and asked to provide feedback of the likelihood for the Indiana bat to occur on or adjacent to the proposed project area. The Ohio DNR reviewed Natural Heritage maps and files for the regional area and concluded that no records of Indiana bat have been recorded within 5 miles of the property and no Indiana bat hibernacula have been recorded within 10 miles of the property.

The AFR has conducted informal consultation with the USFWS (see Appendix J). The agency indicated that the project site lies within the range of the bald eagle (*Haliaeetus leucocaphalus*), a species protected under the Bald and Golden Eagle Protection and Migratory Bird Treaty acts, but that it would not be expected to occur within the project area. However, Ohio DNR has indicated that the location of activity of bald eagles, which are a state threatened species, frequently changes and that the presence of bald eagles in the area may change.

Ohio DNR has also indicated that the project is within the range of the black bear (*Ursus americanus*) and the bobcat (*Lynx rufus*), both state endangered species.

3.22 CULTURAL RESOURCES

Federal laws and regulations, such as the National Historic Preservation Act (NHPA) and the Archaeological Resources Protection Act of 1979 (ARPA) require federal agencies to consider the effects of a Proposed Action on cultural resources. These laws and regulations stipulate a process for compliance, define the responsibilities of the federal agency proposing the action, and prescribe the relationships among other involved agencies (e.g., the State Historic Preservation Officer [SHPO], the Advisory Council on Historic Preservation). The primary law governing the treatment of cultural resources is the NHPA, which requires a federal agency to consider potential impacts on cultural resources from any proposed undertaking. However, only those cultural resources determined to be significant under cultural resources legislation are subject to protection or consideration by a federal agency.

Significant cultural resources, whether they are prehistoric, historic, or traditional in nature, are referred to as "historic properties."

The NHPA defines a historic property as any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places (National Register) maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term also includes properties of traditional religious and cultural importance to an Indian tribe that meet National Register criteria. For the purposes of this analysis, the area of potential effect (APE) as defined under cultural resources legislation is the proposed Cadiz Drop Zone, a 430-acre parcel in Harrison County, Ohio. Cultural resources are divided into two topics; Archaeological or Historic Sites and Native American Issues.

3.22.1 Archaeological / Historic Sites

Only a small portion of the 430-acre parcel has been inventoried for cultural resources. However, the majority of the 430-acre parcel is a former strip mine. The original land surface has been mined and subsequently reclaimed. Because of the severe ground disturbance associated with both mining and reclamation activities, the potential for discovery of archaeological resources is considered very low within the APE. Of the 430 acres, roughly 10 percent are considered not affected by strip mining activities. One archaeological survey has been conducted within this portion. The archaeological survey was conducted in 1990 by ASC, Inc (Mustain, 1990). The majority of the survey was conducted outside the APE to the west in support of an application to expand the mining operation. It included both pedestrian survey and shovel probes. This survey recorded a single archaeological site; the Barricklow Farm (HN0061 and HAS0062414). The Barricklow family settled in the area in the early 1800s. The structures within the APE are a dilapidated corn crib or machine shed and a collapsed barn. Both structures are of unknown date, but the recorders noted they do not appear on topographic maps from the early 20th century. The structures were described as neglected and partially demolished. Several pieces of whiteware and stoneware were collected along with some brick fragments from the area around the collapsed barn and corn crib or machine shed. The artifacts from these excavations are curated with the Ohio Historical Society. The shed was listed as neglected and partially demolished. Neither the National Register Status nor State Registry status were assessed.

3.22.2 Native American Issues

In compliance with the NHPA and American Indian Religious Freedom Act, the Air Force has consulted with American Indian groups that have historically inhabited or occupied the vicinity of the Cadiz Drop Zone (see Appendix J). No specific concerns of tribal organizations with regard to the property were identified.

3.23 SOCIOECONOMICS

The proposed drop zone site is located in Cadiz Township in Harrison County. The estimated population of Harrison County in 2006 was 15,799, a 0.4 percent decrease from its population of 15,856 in 2000. Cadiz Township had a population of 3,639 in 2000. In 2000, 7,018 residents of Harrison County were employed and the unemployment rate in Harrison County was 2.6 percent. In the same year, 1,593 residents of Cadiz Township were employed and the township had a 2.1 percent unemployment rate (U.S. Bureau of Census, 2008).

3.24 ENVIRONMENTAL JUSTICE

EO 12898, Environmental Justice, was issued by the President on February 11, 1994. Objectives of the EO, as it pertains to this EA, include development of federal agency implementation strategies and identification of low-income and minority populations potentially affected because of proposed federal actions.

Accompanying EO 12898 was a Presidential Transmittal Memorandum referencing existing federal statutes and regulations to be used in conjunction with EO 12898. One of the items in this memorandum was the use of the policies and procedures of NEPA. Specifically, the memorandum indicates that,

"Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of federal actions, including effects on minority communities and low-income communities, when such analysis is required by the NEPA 42 U.S.C. section 4321 et. seq."

In addition to environmental justice issues are concerns pursuant to EO 13045, Protection of Children from Environmental Health Risks and Safety Risks. This EO directs federal agencies to identify and assess environmental health and safety risks that may disproportionately affect children.

Although an environmental justice analysis is not mandated by NEPA, DOD has directed that NEPA will be used as the primary mechanism to implement the provision of the EOs.

The Community of Comparison for the environmental justice analysis is defined as Harrison County focusing on the area where potential environmental effects may occur due to the proposed lease of the Cadiz Drop Zone.

Demographic Analysis. Although EO 12898 provides no guidelines for determination of concentrations of low-income or minority populations, the demographic analysis provides information on the approximate locations of minority and low-income populations in the area

potentially affected by the proposed federal action. Potential environmental impacts from the proposed action and alternatives would primarily occur within the boundary of the proposed lease property and nearby neighborhoods. The community of comparison is compared with State and national statistics to determine disproportionate levels of low-income or minority populations.

Demographic information from the U.S. Bureau of the Census was used to extract data on minority, low-income, and child populations within the area. The census reports both ethnicity and household income status. Minority populations included in the census are identified as Black or African American, American Indian and Alaska Native, Asian, Native Hawaiian and other Pacific Islander, or some other race. Information on minority populations based on the 2000 U.S. Census is presented in Table 3.24-1.

Table 3.24-1. Percent Minority, Low-Income, and Persons Under 18 Years of Age Populations

| | Population | Percent Minority | Disproportionately High | Percent of Population Below Poverty Level | Disproportionately High | Percent Under Age 18 ¹ | Disproportionately High |
|----------|------------|------------------|----------------------------|---|----------------------------|--------------------------------------|----------------------------|
| United | | 24.9 | | 9.2 | | 25.7 | |
| States | | | | | | | |
| Ohio | 11,353,140 | 15.9 | | 11.7 | | 24.1 | |
| Harrison | 15,856 | 3.6 | | 13.0 | Yes | 21.5 | |
| County | | | | | | | |

Note:

Based on data collected in 2006.

Source: U.S. Bureau of the Census, 2000.

U.S. Census Bureau poverty status is used in this EA to define low-income status. Poverty status is reported for families with income below poverty level (defined in the 2000 census as \$16,895 for a family of four with two children under 18 years in 1999). Harrison County has a disproportionately high percentage of the population living below the poverty level.

Youth populations, for consideration of EO 13045, are defined as persons under the age of 18. Harrison County does not have a disproportionately high percentage of youth population.

3.25 RECREATIONAL AND VISUAL RESOURCES

The Cadiz Drop Zone and adjacent areas are not currently used for recreation. The site is on private property that is leased for cattle grazing and is not accessible to the public for recreation. No recreation areas are located near the property. Sally Buffalo Park, which is used for picnicking, hiking, swimming, fishing, and camping, and contains rental cabins, is located approximately 3 miles to the northeast.

Views from the property generally consist of flat to rolling open grassland areas on the former strip mine and adjacent wooded and hilly areas. No public roads are adjacent to the property and it is not generally visible from viewpoints accessible to the public.

3.26 TRANSPORTATION

Roads in the vicinity of the property include U.S. Route 22 to the north and west and State Route (SR) 9 to the east (see Figure 1.2-2). Both of these roads travel through the Village of Cadiz to the north of the property. The property can only be reached from SR 9 via Cadiz Township Road 38 which provides access to the Harrison County Airport. Beyond the airport, the road becomes unpaved. This road, identified as Busby Road on maps, is a private road with a locked gate that denies access to the public.

4.0 ENVIRONMENTAL IMPACTS

4.1 LAND USE

4.1.1 Proposed Action

Under the Proposed Action, the current use of the property for cattle grazing would continue. The Proposed Action would not result in any new structures, fences, or roads on the property. The AFR would not conduct any activities (e.g., excavate soil) that could affect the property's status as a reclaimed strip mine. The Cadiz Drop Zone is not subject to zoning, a general plan, or a local land use designations, so its use as a drop zone would not conflict with any local land use plans or policies. There would be no significant impacts to land use.

4.1.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to the current land use on the property; therefore, there would be no impacts to land use.

4.2 AIRSPACE MANAGEMENT

4.2.1 Proposed Action

Air drops would be conducted as part of low-level training flights. The proposed drop zone is in an area currently used by the 911 AW for low level training flights.

Aircraft approach to the drop zone would be limited to along a generally northwesterly—southeasterly orientation between 090° and 170° and between 300° and 360° (see Figure 2.1-2). No fly zones for approach would be established in all other directions in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. All aircraft would exit the drop zone at a direction away from the airport, between 135° and 315°. Adherence to these approach and exit restrictions would avoid potential conflicts with aircraft using the Harrison County Airport. In addition, the 911 AW has already contacted the airport managers regarding the potential establishment of the Cadiz Drop Zone.

The AFR would coordinate with the FAA flight service station to issue a local NOTAM when drops are scheduled. Airdrop information would be sent to the airport managers for posting in the NOTAM. Inbound aircraft crews would announce airdrop time and location on Unicom frequency 122.8. Air drops would only be conducted when there is visual confirmation that no aircraft are present in the drop zone area.

The 911 AW flight safety would revise their existing MACA plan to include activities at the new drop zone. The MACA includes placing a radio call into the local airport to clear local traffic as the aircraft approach the drop zone. For these reasons, no significant impacts to airspace management are expected.

4.2.2 No-Action Alternative

Under the No-Action Alternative, no air drop activities would be conducted at this site. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no change to airspace usage; therefore, there would be no impacts to airspace management.

4.3 NOISE

4.3.1 Proposed Action

As aircraft noise effects on sensitive land uses is considered using the metric of DNL, the criterion for determining potential aircraft noise impacts is based on the FAA's guidance that if outdoor DNL is above 65 dBA, residential land uses are normally considered not compatible. The extent of land areas and populations exposed to DNL of 65 dBA and higher provides a way of assessing the noise impacts of alternative aircraft actions.

An aircraft noise modeling study was conducted as part of the environmental assessment for the training operations conducted by the 911 AW at the Pittsburgh IAP ARS (Pittsburgh International Airport, Air Reserve Station, December 2000). In the study, the 911 AW C-130 aircraft noise conditions were predicted around the Starvaggi Drop Zone, as well as along various training routes to and from the Starvaggi Drop Zone.

The DOD's aircraft noise model applicable for airspace and range flight operations, MR_NMAP, was used to predict the centerline DNL noise levels along each flight training routes including those in the vicinity of the Starvaggi Drop Zone. The model considered:

- Annual utilization of the training routes
- Aircraft type
- Flight path
- Variation of altitude and power settings
- The number of sorties and hours of flight operations

The MR_NMAP-predicted highest centerline DNLs ranged from 26 to 36 dBA along various training routes. The maximum cumulative DNL of 43 dBA was predicted at the Starvaggi

Drop Zone where several training routes intersect. This is well below the 65 dBA DNL. In addition, no noise complaints regarding current airdrop activities at the Starvaggi Drop Zone have been received (Earth Tech, Inc., 2008).

Under the Proposed Action, the aircraft type and flight durations at the Cadiz Drop Zone would be the same as were analyzed for the Starvaggi Drop Zone in the 2000 EA, although the annual maximum possible sortic operations at Cadiz Drop Zone would be higher than the amount analyzed for the Starvaggi Drop Zone. However, because of cancellation of air drop missions due to weather conditions or aircraft maintenance or because of reduced training due to deployments, actual annual drop zone activity at the Cadiz Drop Zone would be less and would likely be similar to the number analyzed for Starvaggi Drop Zone.

According to the fundamental acoustical principle, doubling or halving the operations from the same aircraft types under the same flight conditions would result in only a 3-dBA change in the noise condition. This would be barely perceptible. The difference in aircraft operational condition associated with the implementation of the Proposed Action would unlikely result in a 3-dBA increase to the overall noise condition predicted for the Starvaggi Drop Zone. Therefore, the highest DNL levels around the new Cadiz Drop Zone would essentially remain the same as compared those levels predicted for existing 911 AW training operations at the Starvaggi Drop Zone and would likely be below 45 dBA. Since these levels would be well below the 65 dBA, above which noise sensitive land uses would normally be of concern, the Proposed Action would not result in a significant noise impact.

4.3.2 No-Action Alternative

Under the No-Action Alternative, no airdrop activities would be conducted at the proposed Cadiz Drop Zone. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no changes to noise levels; therefore, there would be no impacts from noise.

4.4 AIR QUALITY

4.4.1 Proposed Action

Potential impacts to air quality from the Proposed Action include fugitive dust associated with vehicle travel on unpaved roads to and on the property and engine air emissions from ground vehicles and from aircraft overflights of the drop zone area.

Vehicle engine air emissions and fugitive dust generated by vehicles traveling to and from and on the site would be expected to be minimal. An average of 2 vehicles (pick up trucks) would travel to and from the site 3 times a day 2-3 times a week for material recovery efforts.

Two to three times a month, a flatbed truck would be driven to and from the site in addition to the 2 pick up trucks. These vehicles are currently driven between the Pittsburgh IAP ARS and the Starvaggi Drop Zone at a similar rate to what they would be driven between the ARS and the proposed Cadiz Drop Zone. The round trip drive to the proposed Cadiz Drop Zone is approximately 3 times farther than to the Starvaggi Drop Zone. Because of the longer driving time, overall air emissions from ground vehicle usage would increase. However, because of the small number of vehicles involved, air emissions would still be expected to be minimal. Fugitive dust emissions from vehicle travel on unpaved road to and on the property would be of short duration and would also be limited during periods of wet and/or frozen ground conditions.

Aircraft air emissions relevant to the Proposed Action are those emitted during aircraft approach, overflight, and departure of the drop zone area. These are shown in Table 4.4-1. Aircraft operations during the training flight conducted prior to and after air drops are considered part of the ongoing aircraft training flights that are conducted in the area. These were analyzed in the EA prepared for training operations conducted by the 911 AW (Headquarters Air Force Reserve Command, 2000). That EA concluded that no significant air quality impacts would occur from these activities.

Table 4.4-1. Cadiz Drop Zone Annual Aircraft Emissions Summary

| | Emissions in Tons per Year | | | | | |
|---------------------------------------|----------------------------|------------------|--------|--------|------------------|--|
| Criteria Pollutant | СО | VOC | NO_x | SO_x | PM ₁₀ | |
| Total Annual Emissions | 1.55 | 0.40 | 9.13 | 0.43 | 1.37 | |
| De Minimis Thresholds ¹ | 100 | 100 ² | 100 | 100 | 100 | |

Notes:

- 1. For maintenance areas.
- 2. Threshold for VOCs in an ozone maintenance area inside an ozone transport region is 50 tpy.

The air emissions calculations are based on the maximum number of sortie-operations that could occur in a year. This assumes 3 training drop test days per week and 3 actual load drop test days per month. Each time an aircraft passes over the drop zone during a training drop counts as a sortie-operation. The analysis is based on 2 aircraft per mission with 2 passes by each aircraft per mission and 3 missions during each test day. Actual annual drop zone activity, and therefore air emissions, would likely be less because of cancellation of air drop

missions due to weather conditions or aircraft maintenance or because of reduced training due to deployments. Air emissions calculations are provided in Appendix I.

The U.S. EPA published final rules on general conformity (40 CFR Parts 51 and 93 in the Federal Register on November 30, 1993) that apply to federal actions in areas designated nonattainment and maintenance for any of the criteria pollutants under the CAA. The rules specify *de minimis* emission levels by pollutant to determine the applicability of conformity requirements for a project. Although de minimis levels are not applicable to this project because Harrison County is an attainment area for all the NAAQS, de minimis threshold for maintenance areas are presented in Table 4.4-1 to provide a point of comparison for estimated emissions from the Proposed Action. Based on the amount of annual air emissions estimated for the Proposed Action, no significant impacts to air quality would occur.

Greenhouse Gas Emissions.

Because air drop activities at the Cadiz Drop Zone would be conducted as part of ongoing C-130 flight training, there would be no significant change in flying hours. Therefore there would be no significant change in greenhouse gas emissions from aircraft under the Proposed Action. Ground vehicle use associated with material recovery would increase from current conditions because of the farther driving distance from Pittsburgh IAP ARS to the proposed Cadiz Drop Zone than to the existing Starvaggi Drop Zone. Therefore, greenhouse gas emissions from ground vehicle use could increase; however, because of the small number of vehicles involved, the overall increase in emissions would be small.

4.4.2 No-Action Alternative

Under the No-Action Alternative, no air drop activities would be conducted at the Cadiz Drop Zone. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no change to air emissions; therefore, there would be no impacts to air quality.

4.5 SAFETY AND OCCUPATIONAL HEALTH

4.5.1 Proposed Action

Dropping items from aircraft presents a potential hazard if people are present in the area where the airdrop is occurring. The proposed drop zone location is not accessible to the general public. Prior to each drop, a drop zone safety officer would be present at the site to verify that no persons are present on the drop zone. The safety officer would be in radio contact with the pilots and drops could be aborted as needed in the unlikely event persons are present and do not leave the area. Prior to actual load drops, cattle would also be excluded

from the drop zone area. Cattle would not need to be excluded from the drop zone during training bundle drops because training bundles are not expected to cause injury in the event that they impact a cow. Training bundles weigh 15 pounds and are attached to a 68-inch parachute. They would fall too slowly to present a hazard to any cattle in the drop zone. The 911 AW flight safety would revise their existing MACA plan to include activities at the new drop zone. No significant impacts to safety and occupational health would be expected.

4.5.2 No-Action Alternative

Under the No-Action Alternative, there would be no change to current conditions. No air drops would be conducted at the proposed Cadiz Drop Zone. No significant impacts to safety and health would occur. The 911 AW would continue to conduct air drops at the Starvaggi Drop Zone. Because of the more rugged topography and presence of large trees at the Starvaggi Drop Zone, material recovery is more difficult than it would be at the Cadiz site; therefore, continued use of the Starvaggi site presents a slightly greater potential for injury to a member of a material recovery crew.

4.6 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

4.6.1 Proposed Action

Under the Proposed Action, small quantities of hazardous materials and petroleum products, such as fuel, oil, lubricants, and antifreeze, would be used on the property in the vehicles used as for material recovery activities. No hazardous material or petroleum products would be stored and no hazardous wastes or petroleum wastes would be generated on the property. The AFR would be responsible for following applicable regulations and procedures for the proper management of these materials. No other use of hazardous material or petroleum products would occur on the property as a result of airdrop training activities. Therefore, under the Proposed Action there would be no significant impacts from hazardous materials and hazardous waste.

4.6.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the AFR for airdrop activities. There would be no change to the current hazardous materials and waste use on the property; therefore, there would be no impacts from hazardous materials or hazardous waste.

4.7 EARTH RESOURCES

4.7.1 Proposed Action

The Proposed Action would not entail any activities that could affect earth resources. No construction, excavation, or other ground disturbing activities would be conducted. The property is on a reclaimed strip mine from which economically recoverable coal has been removed. The Proposed Action does not entail any activity or change in land use that could affect the soil or future access to any mineral resources. No significant impacts to earth resources would be expected.

4.7.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to earth resources.

4.8 WATER RESOURCES

4.8.1 Proposed Action

The Proposed Action would not entail any activities that could affect water resources. No ground disturbing activities that could result in sediment in water bodies from soil erosion would be conducted. There is the potential for a stray load to drop into one of the ponds on the property. Because recovery of material from a water body is more difficult than from on land, this is something the 911 AW would seek to avoid. An occasional load dropping into a pond and subsequent recovery activity would not be expected to have a significant impact to the artificial water bodies on the property. The stream in the southern corner of the property is well outside the expected impact area and would not be affected by routine air drop activities.

4.8.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to water resources.

4.9 BIOLOGICAL RESOURCES

4.9.1 Proposed Action

Impacts to vegetation within the drop zone as a result of the Proposed Action would be minimal. Some vegetation loss within the grassland/pasture area is expected during the training exercise. Support vehicles used in setting up the drop zone target and retrieving the dropped materials would use existing roads where possible, but some off-road travel could be required. Off-road travel could crush/smother individual plant species. No significant modification of the drop zone, such as grading, access roads, clearing vegetation or constructing facilities would be required to establish the drop zone. Current grazing activities would continue to control vegetation height within the drop zone. However, if deemed necessary, some mowing may be required to concurrently control vegetation height. Vegetation species found within the drop zone are common and widespread within the regional area and the described impacts to this vegetation community would be considered less than significant.

Potential effects on wildlife or domestic animals are a function of associated noise produced by aircraft operations. As a result, common wildlife species occupying the drop zone could be temporarily startled and displaced during the drop zone operations. Species such as the white-tailed deer and various bird species would more than likely disperse during drop zone operations, but are expected to quickly return to the drop zone area once the exercise has ceased. Impacts to wildlife species and domestic animals as a result of drop zone operations are temporary, and are considered less than significant.

Wetlands

Wetlands can be affected by direct or indirect impacts. Direct impacts can result when wetlands are filled, dredged, or flooded. Indirect impacts can occur from disturbance to the aquatic habitat or adjacent lands, causing chemical/sedimentary runoff that can result in water degradation.

There are no direct impacts expected to the aquatic habitats present on-site. To the extent possible, the aquatic sites within the proposed impact areas will be avoided; however, it is possible the dropped materials would need to be occasionally retrieved from these sites. During the VRS of the drop zone, it was noted that the aquatic sites present were heavily trampled by and used as water source for the grazing cattle. The occasional retrieval of dropped materials could cause temporary increased sedimentation with the water column, ultimately affecting the water quality; however, the water quality would be expected to return to pre-exercise conditions shortly after the drop-zone operations have ceased. No significant adverse impacts to the aquatic habitats within the impact area are expected.

The small stream located within the woodland area in the southern corner of the property is well outside the expected impact area. There are no impacts anticipated to in this area.

Protected Species

Although potential for the Indiana bat exists within Harrison County, the information gathered from the Ohio DNR supports that the Indiana bat is not found within the regional area containing the proposed drop zone (see Appendix J). Therefore, impacts to the Indiana bat are not anticipated as a result of proposed project activities. Both USFWS and Ohio DNR have concurred that the proposed project is not likely to impact this species.

Because the project entails no construction activities, Ohio DNR has indicated that it is unlikely that there would be impacts to bald eagles. Ohio DNR has also indicated that the proposed project is not likely to have an impact on state listed black bears and bobcats due to the mobility of these species.

4.9.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to biological resources.

4.10 CULTURAL RESOURCES

4.10.1 Proposed Action

Impacts to cultural resources within the Cadiz Drop Zone as a result of the Proposed Action would be negligible. Activities associated with the Proposed Action occur almost exclusively on the mined portion of the property. Access to the property will occur on existing roads. No cultural resources are present in these areas. No significant modification of the drop zone, such as grading new access roads, clearing vegetation, or constructing facilities would be required to establish the drop zone. The activities associated with the Proposed Action are expected to occur mainly in the central portion of the property. The only known cultural resource on the Cadiz Drop Zone, the Barricklow Farm, is not located near the center of the property; it is located in the southeastern portion of the drop zone along the wooded area. Therefore, it will not likely be impacted by training activities. Impacts to cultural resources as a result of drop zone operations are considered less than significant. The Ohio SHPO has concurred that the proposed action would not affect properties listed on or eligible for listing on the National Register (see Appendix J).

4.10.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to cultural resources.

4.11 SOCIOECONOMICS

4.11.1 Proposed Action

The Proposed Action would not result in any changes in employment or population. Persons involved in air drop activities would be existing personnel at Pittsburgh IAP ARS. Economic impacts of the establishment of the Cadiz Drop Zone would be negligible. Material recovery crews could purchase some items, such as fuel and food, in the local area on their way to or from the drop zone. The 911 AW would lease the Property from CONSOL Energy. The lease on privately owned property would not result in changes in revenue to local communities. No significant impacts to socioeconomics would be expected.

4.11.2 No-Action Alternative

Under the No-Action Alternative, the 911 AW would not establish a drop zone and conduct air drop activities at Cadiz. There would be no changes to AFR activities in the area; therefore, there would be no impacts to socioeconomics.

4.12 ENVIRONMENTAL JUSTICE

4.12.1 Proposed Action

Under the Proposed Action there would be no significant impacts to resources; therefore, there would not be any adverse effects to disproportionately high minority, low-income, or youth populations in Harrison County, Ohio. No significant environmental justice impacts would occur.

4.12.2 No-Action Alternative

Under the No-Action Alternative, there would be no change to environmental conditions in Harrison County, Ohio, due to establishment and operation of the Cadiz Drop Zone; therefore, there would be no impacts to minority, low-income, or youth populations. No significant environmental justice impacts would occur.

4.13 RECREATION AND VISUAL RESOURCES

4.13.1 Proposed Action

The proposed drop zone site is not currently used for recreation nor is it accessible to the public for recreational uses. Under the proposed action, there would be no change to area's use or accessibility. There would be no impact to recreation at the nearby Sally Buffalo Park. The use of the site as a drop zone would not result in any visual changes to the property. The Proposed Action would not have a significant impact to recreation and visual resources.

4.13.2 No-Action Alternative

Under the No-Action Alternative, there would be no changes in use and current condition of the property. These would be no impacts to recreation or visual resources.

4.14 TRANSPORTATION

4.14.1 Proposed Action

Routine drop zone activities would entail use of a small number of vehicles driven between Pittsburgh IAP ARS and the proposed Cadiz Drop Zone. Generally 2 pick up trucks would be driven to and from the site up to 3 times a day on each training bundle drop training day. In addition, up to 3 times a month a flatbed truck, in addition to the 2 pick up trucks, would be driven to and from the site up to 3 times a day. This amount of traffic would have no significant impact to traffic on the roads that access the site.

During a paratrooper drop event, a military convoy would be used to transport the paratroopers from the drop zone. An infrequent military convey, estimated at approximately once every two years, would not be expected to have a significant impact to traffic.

4.14.2 No-Action Alternative

Under the No-Action Alternative, there would be no changes in ground vehicle use due to the operation of the Cadiz Drop Zone. There would be no impacts to transportation.

4.15 OTHER

No other resources that have a potential to be affected by implementation of the Proposed Action or No-Action Alternative have been identified.

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5.0 FINDINGS FOR ADJACENT PROPERTIES

5.1 LAND USES WITHIN ¼ MILE OF PROPERTY

Land uses adjacent to the Cadiz Drop Zone are the same as on the property. Within ¼ mile of the property land uses consist of reclaimed strip mined areas covered with grassland vegetation and used for cattle grazing. There are wooded areas to the south and west that were apparently not mined. No buildings or other structures are present.

5.2 POTENTIAL ENVIRONMENTAL CONCERNS WITHIN ¼ MILE OF PROPERTY

No potential environmental concerns have been identified within ¼ mile of the property.

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6.0 CUMULATIVE EFFECTS OF THE ACTION

6.1 DEFINITION OF CUMULATIVE EFFECTS

Cumulative impacts result from "the incremental impact of actions when added to other past, present, and reasonably foreseeable future actions, regardless of what agency undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time" (Council on Environmental Quality, 1978).

6.2 PAST, PRESENT, AND REASONABLY FORESEEABLE ACTIONS

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of Proposed Action in conjunction with other past, present, or reasonably foreseeable future actions.

Other actions that occur in the region that could contribute to cumulative impacts include the Air Force Reserve's continued flight training using C-130 aircraft and strip mining activity. The proposed Cadiz Drop Zone is in an area currently used for LATN by the 911 AW. The LATN areas used by the 911 AW cover approximately 70,000 square nautical miles and flight activities within these areas are widely dispersed and do not frequently pass near the same ground point (Headquarters, Air Force Reserve Command, 2000). An active strip mine is located approximately 3,000 feet to the east of the property.

No other actions with the potential to result in cumulative impacts with the Proposed Action have been identified.

6.3 CUMULATIVE EFFECTS ANALYSIS

Because of the widely dispersed nature of LATN training, this activity is not anticipated to result in cumulative impacts when added to potential impacts from the Proposed Action.

Impacts from strip mining in the area could present potential cumulative impacts with the Proposed Action to resources such as air quality and noise. Air emissions from strip mining could include fugitive dust and mining equipment engine exhaust. Air emissions from the Proposed Action would be minimal and not expected to be significant when added to other sources in the drop zone area. During the VRS of the property, no noise from the active strip mine was audible on the property; therefore, it is unlikely that noise from strip mining activities would add to the noise levels generated by aircraft conducting airdrop activities in the area. No significant cumulative impacts are expected.

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7.0 APPLICABLE REGULATORY COMPLIANCE ISSUES

7.1 COMPLIANCE ISSUES

No compliance issues have been identified based on the findings of the EA/EBS.

7.2 DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR IN PROGRESS

The Cadiz Drop Zone is situated on a reclaimed strip mine. This mine site has been released from its final bond. No other corrective actions have been taken or are in progress for the property.

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8.0 CONCLUSIONS REGARDING SUITABILITY TO PROCEED WITH THE REAL ESTATE TRANSACTION

8.1 FACILITY MATRIX

There are no facilities present on the property.

8.2 PROPERTY CATEGORIES

As discussed in Section 1.3, environmental factors were used in property categorization. Each occurrence of each factor was first categorized individually based on its past or present potential for environmental concern. The categories for all factors present at each location were then integrated to determine the overall property category. The highest category within an individual property determines the overall category for that property.

Disclosure factors were not considered in property categorization. These factors are not considered to be hazardous when properly managed and in good condition. Their presence and any required protective actions may be identified and addressed in other documents.

Based on the findings of this EA/EBS presented in Chapter 3.0, the property was classified into one of the following categories:

- Category 1 Areas where no release or disposal of hazardous or petroleum substances has occurred (including no migration of these substances from adjacent areas)
- Category 2 Areas where only release or disposal of petroleum substances has occurred
- Category 3 Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require removal or remedial response
- Category 4 Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions have been taken
- Category 5 Areas where release, disposal, and/or migration of hazardous substances
 has occurred, and all removal or remedial actions are underway, but have not yet been
 completed
- Category 6 Areas where release, disposal, and/or migration of hazardous substances has occurred, but remedial actions have not been implemented
- Category 7 Areas that are not evaluated or require additional evaluation.

Pursuant to U.S. EPA guidance, this document identifies property as uncontaminated even if some limited quantity of hazardous or petroleum substances was released or disposed of in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include: usage of common household chemicals and storage of heating fuel in housing areas, incidental releases of petroleum products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

The property is considered Category 1.

8.3 NATURAL RESOURCES ISSUES

Natural resource issues that could affect the property include wetlands, protected species, and archaeological/historic sites.

8.3.1 Wetlands

Two ponds and three separate areas supporting wetland vegetation are present on the property; however, these potential wetland areas have not been delineated. The proposed air drop activities, as described in this document, are not anticipated to have an adverse affect to these areas and the presence of potential wetlands should not pose a concern to lease and use of the property as a drop zone.

8.3.2 Protected Species

Only one federally listed species, the Indiana bat has the potential to occur in Harrison County. Although there are no records of the bat occurring near the property there is still a potential for the species to occur in the area. Proposed drop zone activities are not expected to adversely affect the bat. In addition, no impacts to state listed black bears, bobcats, or bald eagles are expected.

8.3.3 Archaeological/Historic Sites

The only known cultural resource on the property is the Barricklow Farm. Because the site is located near the drop zone boundary, it is not in an area that would be expected to be affected by drop zone activities. No significant impacts to the Barricklow Farm are expected.

8.4 DATA GAPS

No data gaps that would be expected to affect the findings of this EA/EBS have been identified.

9.0 RECOMMENDATIONS REGARDING PROCEEDING WITH THE REAL ESTATE TRANSACTION

Based on the findings of this EA/EBS, no environmental issues with regard to leasing the property have been identified.

10.0 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

Irreversible and irretrievable resource commitment refers to the use of nonrenewable resources and the effects these resources would have on future generations. Irreversible effects would result primarily from the consumption or destruction of a resource that could not be reversed. Irretrievable resource commitments would involve a loss or gain in the value of an affected resource that could not be reversed. The Proposed Action and No-Action Alternative would both entail use of some nonrenewable resources, most notably fuel used in aircraft and ground vehicle operations. Implementation of the Proposed Action and No-Action Alternative would not result in a significant irreversible or irretrievable commitment of resources.

APPENDIX A REFERENCES

APPENDIX A

REFERENCES

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APPENDIX B

TERMS

APPENDIX B

GLOSSARY OF TERMS

Adjacent Properties. Properties within 1/4 mile of the subject property, and properties within 1 mile of the subject property that exhibit potential environmental concerns.

Airspace. Airspace is a finite resource that can be defined vertically, horizontally, and temporally, when describing its use for aviation purposes. The Federal Aviation Administration (FAA) manages commercial and general aviation activity within the airspace, and the military manages military aviation activity with FAA oversight.

Asbestos. Six naturally occurring fibrous minerals found in certain types of rock formations. Of the six, the minerals chrysotile, amosite, and crocidolite have been most commonly used in building products. When mined and processed, asbestos is typically separated into very thin fibers. Because asbestos is strong, incombustible, and corrosion-resistant, it was used in many commercial products beginning early in the twentieth century, and peaking in the period from World War II into the 1970s. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.

Attainment. An area where the level of a pollutant is below the NAAQS. An area is deemed in attainment by the U.S. EPA when the air quality is monitored and the resultant concentrations are found to be consistently below the NAAQS.

Class 1. Class 1 federal lands include areas such as national parks, national wilderness areas, and national monuments. These areas are granted special air quality protections under Section 162(a) of the federal Clean Air Act.

Contaminants. Undesirable substances rendering something unfit for use.

Contamination. The degradation of naturally occurring water, air, or soil quality, either directly or indirectly, as a result of human activities.

Cultural Resources. Prehistoric or historic archaeological sites, buildings, structures, districts, artifacts, or other physical evidence of human activity.

Discharge. Release of groundwater in to springs or wells, through evapotranspiration, or as outflow. Also a release of a liquid into a waterbody or a gas into the air.

Endangered. An animal or plant species in danger of extinction throughout all or a significant portion of its range.

Environmental Restoration Program (ERP). The Air Force program designed to identify, characterize, and remediate environmental contamination on Air Force installations. Although widely accepted at the time, procedures followed prior to the mid-1970s for managing and disposing of many wastes often resulted in contamination of the environment. The program has established a process to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment. Section 211 of the Superfund Reauthorization and Amendment Act (SARA), codified as the Defense Environmental Restoration Program (DERP), of which the Air Force ERP is a subset, ensures that the Department of Defense (DOD) has the authority to conduct its own environmental restoration programs. DOD coordinates ERP activities with the U.S. EPA and appropriate state agencies.

Groundwater. Water that occurs beneath the water table in soil and geologic formations that are fully saturated.

Hazardous material. Generally, a substance or mixture of substances that has the capability of either causing or significantly contributing to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness; or posing a substantial present or potential risk to human health or the environment. Use of these materials is regulated by the Department of Transportation, Occupational Safety and Health Administration (OSHA), and the U.S. EPA.

Hazardous substances. "Hazardous substances" is a broad classification and includes hazardous materials, hazardous chemicals, hazardous wastes, and petroleum products. Several different federal and state rules individually regulate the storage of these hazardous substances.

Hazardous waste (federal definition under Resource Conservation and Recovery Act [RCRA], 42 U.S. Code [U.S.C.] Section 6903). RCRA defines hazardous waste as "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics, may pose a hazard to human health or the environment" (RCRA, Section 1004[5]). The U.S. EPA has listed several wastes that are known to be hazardous. A waste can also be classified as a characteristic hazardous waste if it exhibits one or more of the four hazardous waste characteristics described in Subpart C: ignitability, corrosivity, reactivity, or toxicity.

Lead. A heavy metal used in many industries that can accumulate in the body and cause a variety of negative effects.

Migration. The movement of substances from adjacent areas to the subject property, versus the ERP definition, which is the movement of substances from the subject property to an adjacent area.

National Ambient Air Quality Standards (NAAQS). The NAAQS are established by the U. S. EPA for pollutants considered harmful to public health and the environment. The NAAQS are for six principal pollutants, which are called "criteria" pollutants. These are: carbon monoxide, lead, nitrogen dioxide, particulate matter equal to or less than 10 microns in diameter, particulate matter equal to or less than 2.5 microns in diameter, ozone, and sulfur dioxide.

National Priorities List. The list compiled by the U.S. EPA pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C., Section 9605[a][8][B]) of properties with the highest priority for cleanup pursuant to U.S. EPA's Hazard Ranking System.

Nonattainment. An area designated by U.S. EPA where an air pollutant exceeds the NAAOS.

Pesticides. Any substance, organic or inorganic, used to destroy or inhibit the action of plant or animal pests; the term thus includes insecticides, herbicides, fungicides, rodenticides, miticides, fumigants, and repellents. All pesticides are toxic to humans some degree. Pesticides vary in biodegradability.

Petroleum Products. Fuels, lubricants, hydraulic fluids, and solvents that are predominant petroleum based. They do not include oil-based paints, pesticides, synthetic solvents or other petroleum products containing hazardous substances which are added after the petroleum refining process.

Petroleum Substance. Petroleum products and petroleum wastes.

Petroleum Wastes. Refuse generated through the use of petroleum products. Petroleum wastes qualifying for the petroleum exclusion are unadulterated petroleum wastes. Petroleum wastes contaminated by hazardous substances are treated as hazardous wastes.

Polychlorinated biphenyls (PCBs). Any of a family of industrial compounds produced by chlorination of biphenyls. These compounds accumulate in organisms and concentrate in the food chain with resultant pathogenic and teratogenic effects. They also decompose very slowly.

Release. Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), but excludes (a) any release that results in exposure to persons solely within a workplace, with respect to a claim that such persons may assert against the employer of such persons; (b) emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine; (c) release of source, by-product, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under Section 170 of such Act, or, for the purposes of Section 104 of this title or any other response action, any release of source by-product, or special nuclear material from any processing site designated under Section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978, and (d) the normal application of fertilizer.

Transfer. Permits to other government agencies, donations, land exchanges, transfers of federal government property accountability, easements, leases, or licenses.

Uncontaminated Property. Property on which no hazardous substances and no petroleum products or their derivatives were known to have been released or disposed of.

Underground storage tank (UST). Any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products, and the volume of which is 10 percent or more beneath the surface of the ground.

U.S. Environmental Protection Agency (EPA). The independent federal agency, established in 1970, that regulates environmental matters and oversees the implementation of environmental laws.

Visual Reconnaissance Survey. A cursory physical conducted by walking around or through an area.

Visual Site Inspection. An exterior and interior (walk through) inspection of a structure.

APPENDIX C LIST OF PREPARERS

APPENDIX C

LIST OF PREPARERS

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Years of Experience: 1

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Years of Experience: 20

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M.S., 1988, Atmospheric Science, New York University

Years of Experience: 16

APPENDIX D PERSONS AND AGENCIES CONTACTED

APPENDIX D

PERSONS CONTACTED

The following individuals were interviewed, by phone, email, or in person, during the preparation of this EA/EBS and provided information used in developing the findings of the report.

Frank Sniezek 911 AW/CEVE

Lt Col Aldo Filoni 911 OSF/OSTX

Lt Col William Gutermuth 911 AW Safety

Denny McCracken CNX Land

Jim Poland CNX Environmental & Engineering Services

Patrick Moore Harrison County Auditor

Carrie Simmons Ohio Historic Preservation Office

Butch Grieszmer Ohio Department of Natural Resources (Biological)

Brent Heavilin Ohio Department of Natural Resources (Mineral)

Additional information was provided by people and agencies that were contacted during regulatory consultation and Interagency and Intergovernmental Coordination for Environmental Planning. Copies of correspondence from these agencies can be found in Appendixes J and K.

APPENDIX E MAPS AND AERIAL PHOTOGRAPHS

APPENDIX E

TABLE E-1. AERIAL PHOTOGRAPH, COMPOSITE HISTORICAL TIMETABLE

PROPOSED CADIZ DROP ZONE PROPERTY

| Year | Source | Discussion |
|------|-------------------|--|
| 1905 | Topographic Map | Distinguishing land marks identifying area on map as a reclaimed strip mine are undetectable. Based on this topographic map the proposed Cadiz Drop Zone property appears to be undeveloped open space with rolling hills and several small streams throughout the property running to the southwest and southeast and emptying into South Fork. |
| 1961 | Topographic Map | About 1/3 of the property appears to have been strip mined. There are still undeveloped portions and forested areas. Several small ponds appear on this topographic map, along with the power lines to the west of the property and access roads to the mines. |
| 1976 | Aerial Photograph | The property appears to have been completely disturbed in this aerial photograph. There are access roads to the mines and several ponds near the property. |
| 1978 | Topographic Map | In this map, the remainder of the property is labeled as having been strip mined. The shapes and locations of ponds shift slightly; however, no major changes to the topography have been made. There is no evidence of reclamation. |
| 1982 | Aerial Photograph | The property appears unchanged from the 1976 aerial photograph. |
| 1994 | Aerial Photograph | The property appears similar to the property in the 1982 aerial photograph. There is evidence that mining has been restarted. |
| 1994 | Topographic Map | The property appears to have been strip mined again. The present access roads appear on this map. |
| 2005 | Aerial Photograph | The property appears to have been reclaimed. |



Cadiz Drop Zone

Busby Rd & Slater Rd Cadiz, OH 43907

Inquiry Number: 2336628.4

October 09, 2008

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

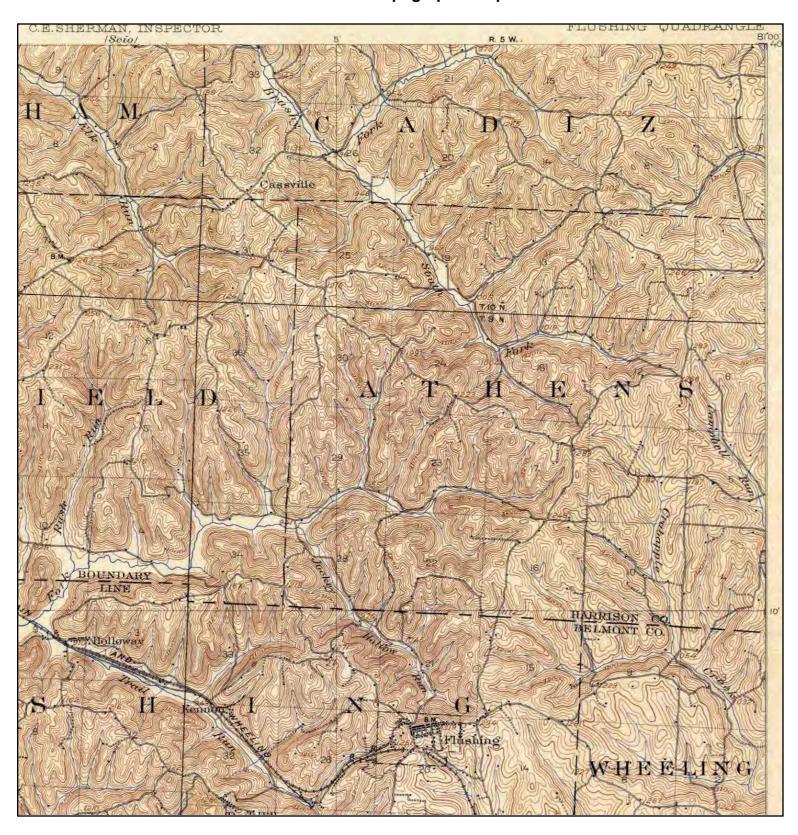
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Historical Topographic Map





TARGET QUAD

NAME: FLUSHING

MAP YEAR: 1905

SERIES: 15 SCALE: 1:62500

ING

SITE NAME: Cadiz Drop Zone ADDRESS: Busby Rd & Slater Rd

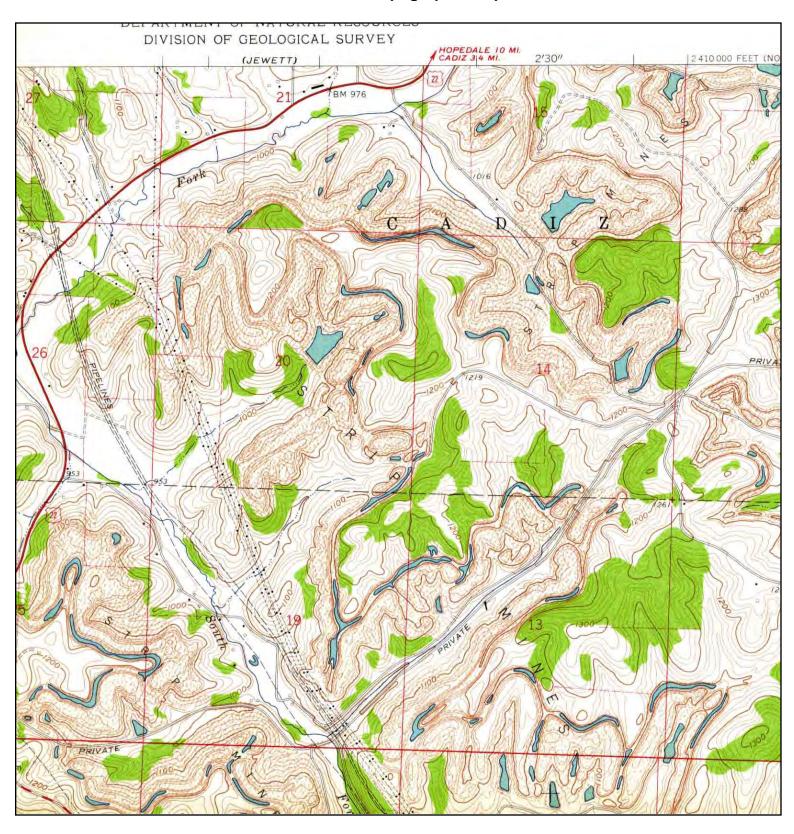
Cadiz, OH 43907

LAT/LONG: 40.2297 / 81.0508

CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.4

RESEARCH DATE: 10/09/2008

Historical Topographic Map





TARGET QUAD

NAME: FLUSHING

MAP YEAR: 1961

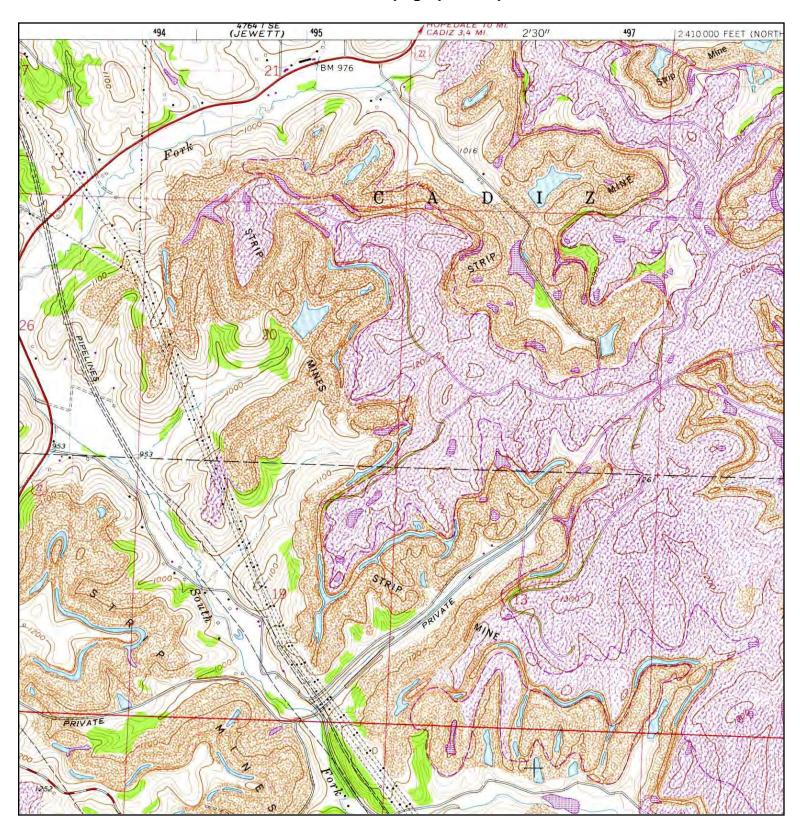
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Cadiz Drop Zone
ADDRESS: Busby Rd & Slater Rd

Cadiz, OH 43907

LAT/LONG: 40.2297 / 81.0508

CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.4
RESEARCH DATE: 10/09/2008

Historical Topographic Map





TARGET QUAD

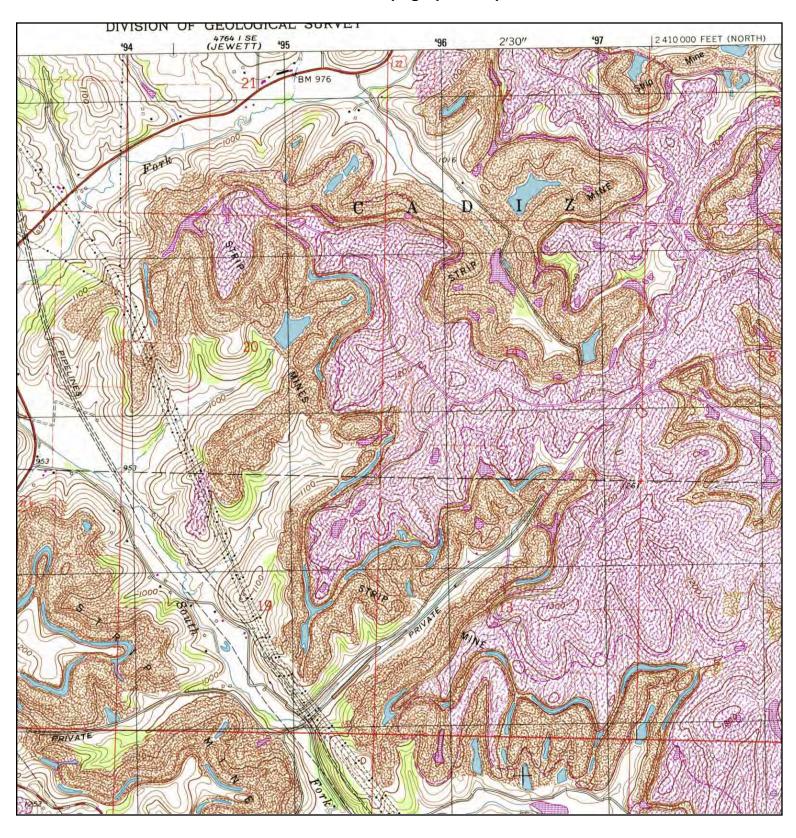
NAME: FLUSHING MAP YEAR: 1978

PHOTOREVISED FROM:1961

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Cadiz Drop Zone
ADDRESS: Busby Rd & Slater Rd

Cadiz, OH 43907 LAT/LONG: 40.2297 / 81.0508 CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.4
RESEARCH DATE: 10/09/2008

Historical Topographic Map





TARGET QUAD

NAME: FLUSHING

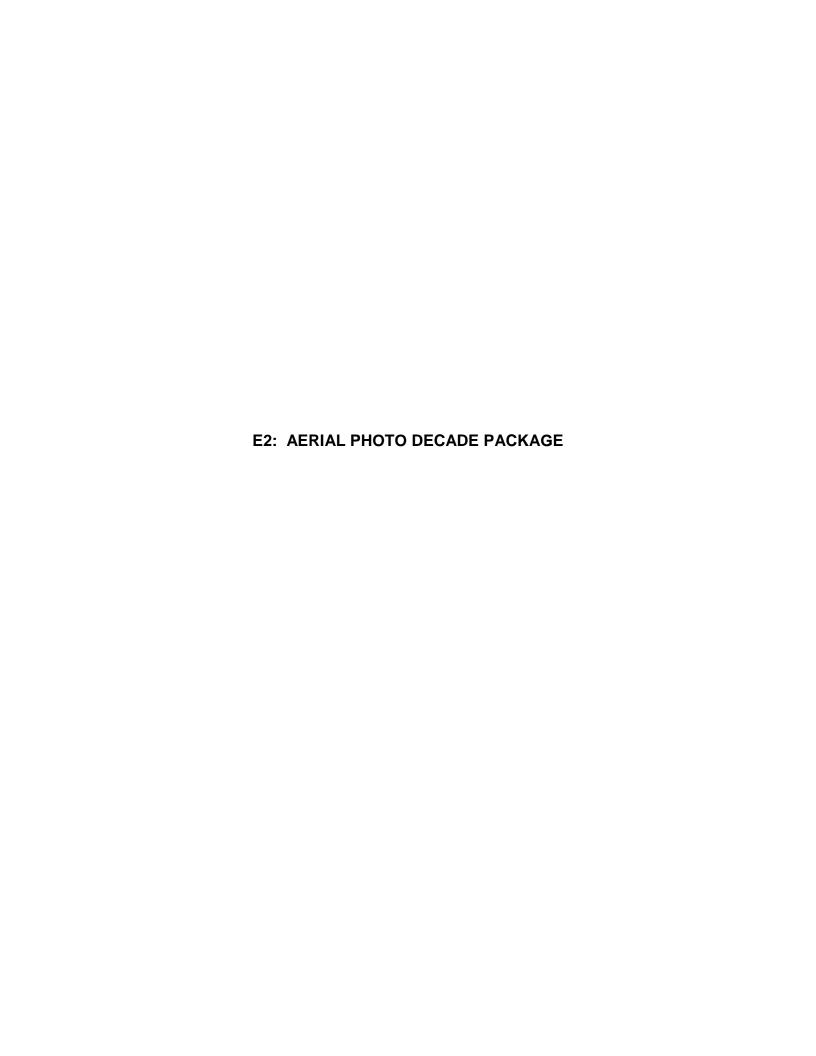
MAP YEAR: 1994

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Cadiz Drop Zone ADDRESS: Busby Rd & Slater Rd

Cadiz, OH 43907

LAT/LONG: 40.2297 / 81.0508

CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.4
RESEARCH DATE: 10/09/2008



Cadiz Drop Zone

Busby Rd & Slater Rd Cadiz, OH 43907

Inquiry Number: 2336628.5

October 13, 2008

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography October 13, 2008

Target Property:

Busby Rd & Slater Rd Cadiz, OH 43907

| <u>Year</u> | <u>Scale</u> | <u>Details</u> | <u>Source</u> |
|-------------|------------------------------------|---|---------------|
| 1976 | Aerial Photograph. Scale: 1"=1000' | Panel #: 2440081-B1/Flight Date: April 06, 1976 | EDR |
| 1982 | Aerial Photograph. Scale: 1"=1000' | Panel #: 2440081-B1/Flight Date: April 15, 1982 | EDR |
| 1994 | Aerial Photograph. Scale: 1"=750' | Panel #: 2440081-B1/Flight Date: April 14, 1994 | EDR |
| 2005 | Aerial Photograph. Scale: 1"=485' | Flight Year: 2005 | EDR |









APPENDIX F SITE PHOTOGRAPHS



Photograph 1: Access road to the property, facing east.



Photograph 2: Facing northwest toward pond on eastern side of the property.



Photograph 3: View west across central portion of property from near east end.



Photograph 4: Facing north toward pond on western portion of the property.



Photograph 5: View from near west end of property of east pond in the valley containing the ponds.



Photograph 6: View east across the central portion of the property from near the west end.



Photograph 7: Typical vegetation on the central portion of the property.



Photograph 8: View west from central portion of property.



Photograph 9: Wet area near center of the property, facing south.



Photograph 10: Forested area on the western portion of the property, facing southwest.



Photograph 11: View of ridge to east of the property.



Photograph 12: Wetlands on the southern portion of the property, facing southeast.



Photograph 13: Forested area on the southern part of the property, facing southeast.



Photograph 14: Wetlands south of the forested area on the southern part of the property, facing southwest.



Photograph 15: An area of wetland vegetation on the southern portion of the property.



Photograph 16: Vegetation in the forested area on the southern part of the property.

APPENDIX G SITE INSPECTION DOCUMENTS



Cadiz Drop Zone
Busby Rd & Slater Rd
Cadiz, OH 43907

Inquiry Number: 2336628.2s

October 08, 2008

The EDR Radius Map™ Report with GeoCheck®

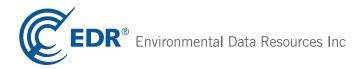


TABLE OF CONTENTS

| SECTION | PAGE |
|--|----------|
| Executive Summary | ES1 |
| Overview Map. | 2 |
| Detail Map | |
| Map Findings Summary | 4 |
| Map Findings | 6 |
| Orphan Summary | 7 |
| Government Records Searched/Data Currency Tracking | GR-1 |
| GEOCHECK ADDENDUM | |
| Physical Setting Source Addendum | A-1 |
| Physical Setting Source Summary | A-2 |
| Physical Setting Source Map | A-7 |
| Physical Setting Source Map Findings. | A-8 |
| Physical Setting Source Records Searched | A-10 |

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BUSBY RD & SLATER RD CADIZ, OH 43907

COORDINATES

Latitude (North): 40.229660 - 40° 13' 46.8" Longitude (West): 81.050750 - 81° 3' 2.7"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 495682.4 UTM Y (Meters): 4453038.5

Elevation: 1102 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 40081-B1 FLUSHING, OH

Most Recent Revision: 1994

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List

Proposed NPL Proposed National Priority List Sites
Delisted NPL National Priority List Deletions
NPL LIENS Federal Superfund Liens

CERC-NFRAP...... CERCLIS No Further Remedial Action Planned

LIENS 2..... CERCLA Lien Information CORRACTS..... Corrective Action Report

RCRA-TSDF...... RCRA - Transporters, Storage and Disposal

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-CESQG...... RCRA - Conditionally Exempt Small Quantity Generator

RCRA-NonGen_____RCRA - Non Generators US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls

ERNS..... Emergency Response Notification System

HMIRS..... Hazardous Materials Information Reporting System

DOT OPS..... Incident and Accident Data US CDL..... Clandestine Drug Labs US BROWNFIELDS..... A Listing of Brownfields Sites DOD..... Department of Defense Sites FUDS Formerly Used Defense Sites

LUCIS.....Land Use Control Information System CONSENT..... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites ODI...... Open Dump Inventory

DEBRIS REGION 9...... Torres Martinez Reservation Illegal Dump Site Locations

MINES..... Mines Master Index File

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

PADS______PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS_____Facility Index System/Facility Registry System RAATS...... RCRA Administrative Action Tracking System SCRD DRYCLEANERS..... State Coalition for Redediation of Drycleaners Listing

STATE AND LOCAL RECORDS

NPL list.

DERR..... Division of Emergency & Remedial Response's Database

MSL..... Master Sites List

TOWNGAS..... DERR Towngas Database SWF/LF....Licensed Solid Waste Facilities HIST LF..... Old Solid Waste Landfill

LUST..... Leaking Underground Storage Tank File

UNREG LTANKS..... Ohio Leaking UST File

UST...... Underground Storage Tank File

ARCHIVE UST..... Archived Underground Storage Tank Sites

..... Emergency Response Database ENG CONTROLS..... Sites with Engineering Controls

INST CONTROL..... Sites with Institutional Engineering Controls

VCP..... Voluntary Action Program Sites DRYCLEANERS Drycleaner Facility Listing BROWNFIELDS..... Ohio Brownfield Inventory CDL...... Clandestine Drug Lab Locations NPDES General Permit List AIRS..... Title V Permits Listing

...... Urban Setting Designation Sites

HIST ENG CONTROLS..... Operation & Maintenance Agreements Database
HIST USD....... Urban Setting Designations Database

HIST INST CONTROLS..... Institutional Controls Database

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

INDIAN UST...... Underground Storage Tanks on Indian Land

INDIAN VCP..... Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

Manufactured Gas Plants____ EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

Due to poor or inadequate address information, the following sites were not mapped:

Site Name Database(s)

HARRISON COUNTY HIGHWAY DEPARTMENT FINDS, RCRA-TSDF,

CORRACTS, CERC-NFRAP,

RCRA-NonGen

VILLAGE OF CADIZ

VILLAGE OF CADIZ

HARRISON HILLS SCHOOL

SALLY BUFFALO PARK

UST

CONSOLIDATION COAL CO. NITRATE BLANT

BERALG

CONSOLIDATION COAL CO - NITRATE PLANT RCRA-LQG
GULF OIL CORPORATION FINDS, RCF

GULF OIL CORPORATION FINDS, RCRA-NonGen
BRANSON RIDGE MINE R AND F COAL CO FINDS, RCRA-NonGen
MULL MOTORS INC FINDS, RCRA-CESQG

SOUTH CADIZ STATION RTE 250

CADIZ SHELL

CADIZ, VILLAGE OF

CADIZ STP

CADIZ WWTP

ERNS

FINDS

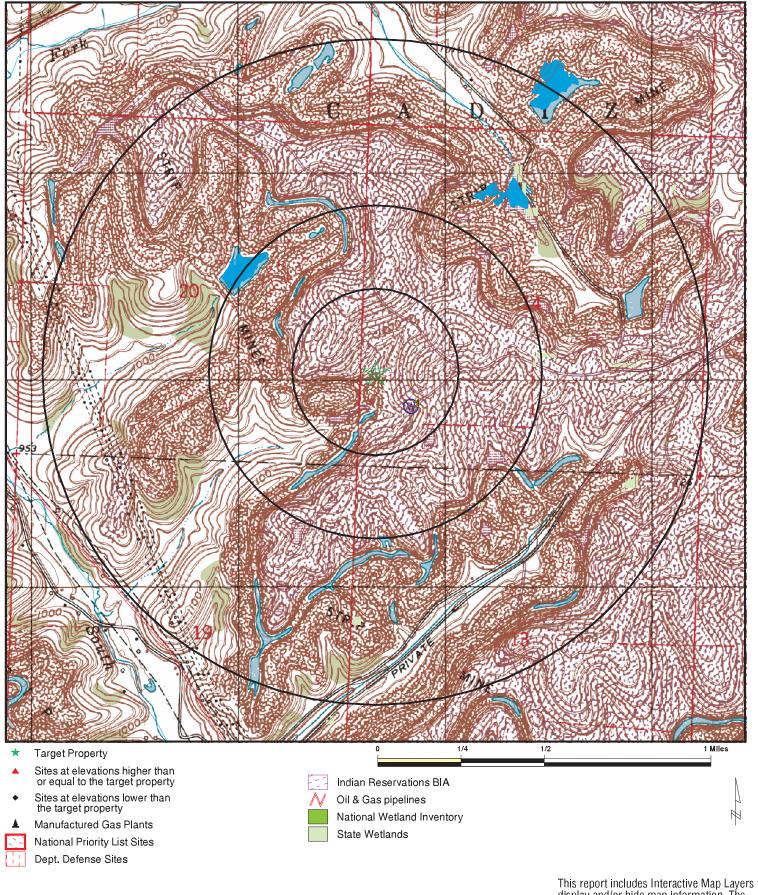
SPILLS

SPILLS

SPILLS

NORFOLK & WESTERN
CADIZ GAS COMPANY
UNREG LTANKS
TOWNGAS

OVERVIEW MAP - 2336628.2s



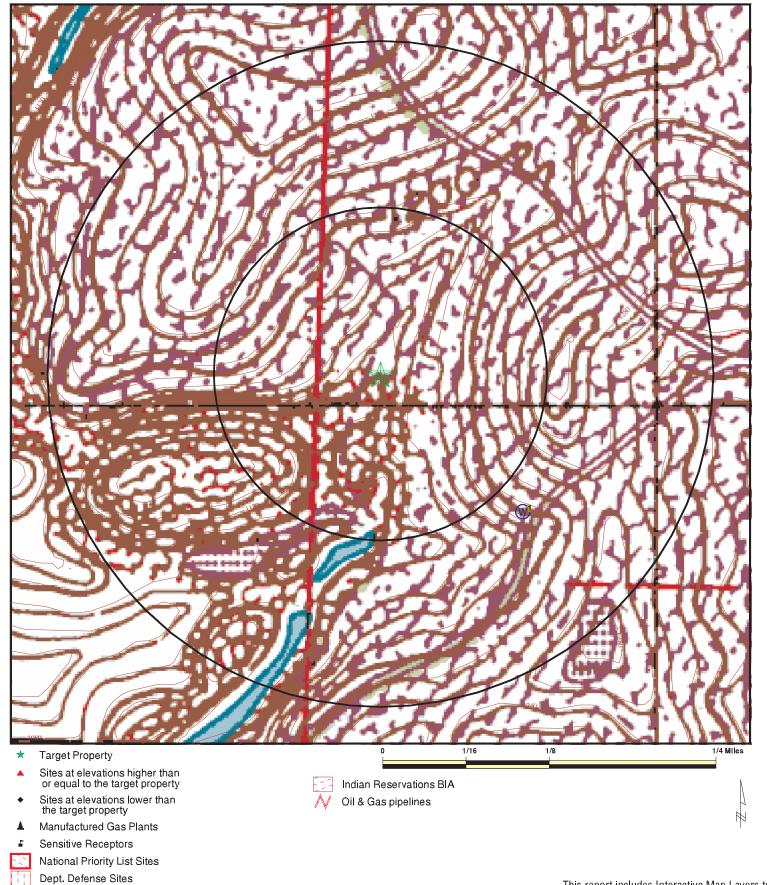
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Cadiz Drop Zone
ADDRESS: Busby Rd & Slater Rd
Cadiz OH 43907
LAT/LONG: 40.2297 / 81.0507

CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.2s

DATE: October 08, 2008 4:23 pm

DETAIL MAP - 2336628.2s



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Cadiz Drop Zone
ADDRESS: Busby Rd & Slater Rd
Cadiz OH 43907
LAT/LONG: 40.2297 / 81.0507

CLIENT: Earth Tech Inc. CONTACT: Carl Rykaczewski INQUIRY#: 2336628.2s

DATE: October 08, 2008 4:23 pm

MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|--------------------|--|---|--|---|--|---------------------------------------|--------------------|
| FEDERAL RECORDS | | | | | | | | |
| NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-ONTROLS US INST CONTROLS US INST CONTROL ERNS HMIRS DOT OPS US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA ODI DEBRIS REGION 9 MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS RADINFO FINDS RAATS | | 1.000 1.000 1.000 1.000 TP 0.500 0.500 TP 1.000 0.250 0.250 0.250 0.250 0.500 TP TP TP TP TP TP 0.500 1.000 0.500 1.000 0.500 0.500 0.500 0.500 0.500 0.500 TP | O O O R O O O O O O O O O O O O O O O O | OOOROOROOOOOOORRRRROOOOOOOOORRRRRRRRRR | 0 0 0 R 0 0 R R R R R 0 0 R R R R R 0 | 000 RR R R O R R R R R R R R R R R R R O O R O O R | N N N N N N N N N N N N N N N N N N N | |
| SCRD DRYCLEANERS STATE AND LOCAL RECOR | DS | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| SHWS DERR MSL TOWNGAS | _ | N/A 1.000 1.000 1.000 | N/A 0 0 0 | N/A 0 0 0 | N/A 0 0 0 | N/A 0 0 0 | N/A NR NR NR | N/A 0 0 0 |

MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|-------------------------|--------------------|-------------------------------|-------|-----------|-----------|---------|-----|------------------|
| SWF/LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| UNREG LTANKS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| ARCHIVE UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| SPILLS | | TP | NR | NR | NR | NR | NR | 0 |
| ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INST CONTROL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| DRYCLEANERS | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| BROWNFIELDS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| CDL | | TP | NR | NR | NR | NR | NR | 0 |
| NPDES | | TP | NR | NR | NR | NR | NR | 0 |
| AIRS | | TP | NR | NR | NR | NR | NR | 0 |
| USD | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST USD | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST INST CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| TRIBAL RECORDS | | | | | | | | |
| INDIAN RESERV | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| INDIAN VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| EDR PROPRIETARY RECOR | DS | | | | | | | |
| Manufactured Gas Plants | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

| Map ID | | MAP FINDINGS | | |
|-----------|------|--------------|-------------|---------------|
| Direction | | | ı | EDD 10 11 1 |
| Distance | | | | EDR ID Number |
| Elevation | Site | | Database(s) | EPA ID Number |

NO SITES FOUND

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|-------------|------------|---------------------------------------|---------------------------------------|-------|-----------------------------|
| CADIZ | 1000227152 | GULF OIL CORPORATION | ROUTE 151 | 43907 | FINDS, RCRA-NonGen |
| CADIZ | 1000561318 | HARRISON COUNTY HIGHWAY DEPARTMENT | ROUTE 9 NORTH | 43907 | FINDS, RCRA-TSDF, CORRACTS, |
| | | | | | CERC-NFRAP, RCRA-NonGen |
| CADIZ | 1007208885 | CONSOLIDATION COAL CO - NITRATE PLANT | ROUTE 9 | 43907 | RCRA-LQG |
| CADIZ | U004104012 | VILLAGE OF CADIZ | ALLEY BEHIND 128 W MARKET ST | 43907 | UST |
| CADIZ | 1002990058 | VILLAGE OF CADIZ | ALLEY BEHIND 128 W MARKET ST | 43907 | LUST |
| CADIZ | 94399237 | SOUTH CADIZ STATION RTE 250 | SOUTH CADIZ STATION RTE 250 | | ERNS |
| CADIZ | 1005805290 | CADIZ SHELL | 655 LINCOLNWAY | 43907 | FINDS |
| CADIZ | S105743176 | CADIZ GAS COMPANY | MAIN / NORTH STREETS | 43907 | TOWNGAS |
| CADIZ | S106258349 | CADIZ STP | N/A | 43907 | SPILLS |
| CADIZ | S105905313 | NORFOLK & WESTERN | REXFORD SIDING (300' N OF SR 22) | 43907 | UNREG LTANKS |
| CADIZ | 1004573535 | CADIZ, VILLAGE OF | US ROUTE 250 SOUTH | 43907 | FINDS |
| CADIZ | U004092778 | HARRISON HILLS SCHOOL | ST RT 250 & ST RT 22 | 43907 | UST |
| CADIZ | U004100432 | SALLY BUFFALO PARK | ST RT 9 | 43907 | UST |
| CADIZ | S107617164 | CADIZ WWTP | 45555 VANFOSSEN RD OFF OF WILLIAMS RD | 43907 | SPILLS |
| CADIZ | 1000334571 | MULL MOTORS INC | WHEELING RD RT 250 | 43907 | FINDS, RCRA-CESQG |
| SHORT CREEK | 1000834249 | BRANSON RIDGE MINE R AND F COAL CO | ST RTE 250 | 43907 | FINDS, RCRA-NonGen |

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/13/2008 Source: EPA
Date Data Arrived at EDR: 08/27/2008 Telephone: N/A

Date Made Active in Reports: 09/23/2008 Last EDR Contact: 07/28/2008

Number of Days to Update: 27 Next Scheduled EDR Contact: 10/27/2008

Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Source: EPA
Date Data Arrived at EDR: 05/06/2008 Telephone: N/A

Number of Days to Update: 34 Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/14/2008 Source: EPA
Date Data Arrived at EDR: 08/27/2008 Telephone: N/A

Number of Days to Update: 27 Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 34

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 09/19/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008

Number of Days to Update: 76

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 09/15/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/19/2008 Date Data Arrived at EDR: 08/29/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/25/2008 Date Data Arrived at EDR: 06/30/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 56

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 08/20/2008 Date Data Arrived at EDR: 08/21/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 19

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008 Date Data Arrived at EDR: 08/21/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 19

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 08/20/2008 Date Data Arrived at EDR: 08/21/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 19

Source: Environmental Protection Agency Telephone: 312-886-6186

Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008 Date Data Arrived at EDR: 08/21/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 19

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 08/20/2008 Date Data Arrived at EDR: 08/21/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 19

Source: Environmental Protection Agency Telephone: 312-886-6186

Telephone: 312-886-6186 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 11/17/2008

Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/23/2008 Date Data Arrived at EDR: 07/29/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/29/2008

Next Scheduled EDR Contact: 12/29/2008 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/23/2008 Date Data Arrived at EDR: 07/29/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/30/2008

Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 01/23/2008 Date Made Active in Reports: 03/17/2008

Number of Days to Update: 54

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 07/25/2008

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 07/15/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 41

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 07/15/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008 Date Data Arrived at EDR: 05/28/2008 Date Made Active in Reports: 08/08/2008

Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/29/2008

Next Scheduled EDR Contact: 11/24/2008

Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007

Number of Days to Update: 25

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 12/22/2008 Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 08/25/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 07/15/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008

Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 09/05/2008 Date Made Active in Reports: 09/23/2008

Number of Days to Update: 18

Source: U.S. Army Corps of Engineers Telephone: 202-528-4285

Last EDR Contact: 09/05/2008

Next Scheduled EDR Contact: 12/29/2008 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 09/09/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/25/2008 Date Data Arrived at EDR: 06/12/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 07/21/2008

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical

and health information to aid in the cleanup.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 45

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/29/2008

Next Scheduled EDR Contact: 12/29/2008 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 09/15/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008

Number of Days to Update: 28

Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 09/22/2008

Next Scheduled EDR Contact: 12/22/2008 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/25/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/23/2008

Next Scheduled EDR Contact: 12/22/2008 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 09/19/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006

Number of Days to Update: 46

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 08/11/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the

Agency on a quarterly basis.

Date of Government Version: 07/12/2008 Date Data Arrived at EDR: 07/18/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 38

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 09/15/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/12/2008 Date Data Arrived at EDR: 07/18/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 38

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 09/15/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 35

Source: EPA Telephone: 202-564-4203

Last EDR Contact: 07/14/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2008 Date Data Arrived at EDR: 08/13/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 07/14/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007 Date Data Arrived at EDR: 02/07/2008 Date Made Active in Reports: 03/17/2008

Number of Days to Update: 39

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 09/18/2008

Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/08/2008 Date Data Arrived at EDR: 08/05/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 20

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/29/2008

Next Scheduled EDR Contact: 12/29/2008 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/29/2008 Date Data Arrived at EDR: 07/31/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 25

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/31/2008

Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/09/2008 Date Made Active in Reports: 08/25/2008

Number of Days to Update: 47

Source: EPA Telephone: (312) 353-2000 Last EDR Contact: 09/29/2008

Next Scheduled EDR Contact: 12/29/2008 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007

Number of Days to Update: 38

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 09/12/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Redediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/08/2008 Date Data Arrived at EDR: 09/10/2008 Date Made Active in Reports: 09/23/2008

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 08/25/2008

Next Scheduled EDR Contact: 11/10/2008 Data Release Frequency: Varies

STATE AND LOCAL RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: Ohio EPA Telephone: 614-644-2924 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008

Data Release Frequency: N/A

DERR: Division of Emergency & Remedial Response's Database

The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 09/08/2008 Date Data Arrived at EDR: 09/08/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 11

Source: Ohio EPA, Div. of Emergency and Remedial Response

Telephone: 614-644-3538 Last EDR Contact: 09/08/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Semi-Annually

TOWNGAS: DERR Towngas Database

The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992 Date Data Arrived at EDR: 02/21/2003 Date Made Active in Reports: 03/05/2003

Number of Days to Update: 12

Source: Ohio EPA Telephone: 614-644-3749 Last EDR Contact: 02/12/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

MSL: Master Sites List

Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

Date of Government Version: 03/01/1999 Date Data Arrived at EDR: 03/29/1999 Date Made Active in Reports: 04/21/1999

Number of Days to Update: 23

Source: Ohio Environmental Protection Agency

Telephone: 614-644-2068 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: No Update Planned

SWF/LF: Licensed Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/14/2008 Date Data Arrived at EDR: 08/14/2008 Date Made Active in Reports: 09/04/2008

Number of Days to Update: 21

Source: Ohio Environmental Protection Agency

Telephone: 614-644-2621 Last EDR Contact: 08/04/2008

Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980 Date Data Arrived at EDR: 07/01/2003 Date Made Active in Reports: 07/17/2003

Number of Days to Update: 16

Source: Ohio EPA Telephone: 614-644-3749 Last EDR Contact: 06/26/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank File

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/09/2008 Date Data Arrived at EDR: 09/09/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 10

Source: Department of Commerce Telephone: 614-752-7924 Last EDR Contact: 09/09/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Quarterly

UNREG LTANKS: Ohio Leaking UST File

A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999 Date Data Arrived at EDR: 08/19/2003 Date Made Active in Reports: 08/26/2003

Number of Days to Update: 7

Source: Department of Commerce Telephone: 614-752-7938 Last EDR Contact: 08/01/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

UST: Underground Storage Tank Tank File

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/24/2008 Date Data Arrived at EDR: 09/24/2008 Date Made Active in Reports: 09/30/2008

Number of Days to Update: 6

Source: Department of Commerce Telephone: 614-752-7938 Last EDR Contact: 09/22/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Quarterly

ARCHIVE UST: Archived Underground Storage Tank Sites

Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 09/24/2008 Date Data Arrived at EDR: 09/24/2008 Date Made Active in Reports: 09/30/2008

Number of Days to Update: 6

Source: Department of Commerce, Division of State Fire Marshal

Telephone: 614-752-7938 Last EDR Contact: 09/22/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Quarterly

SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 09/01/2008 Date Data Arrived at EDR: 09/10/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 9

Source: Ohio EPA Telephone: 614-644-2084 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Varies

ENG CONTROLS: Sites with Engineering Controls

A database that tracks properties with engineering controls.

Date of Government Version: 09/02/2008 Date Data Arrived at EDR: 09/03/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 16

Source: Ohio EPA Telephone: 614-644-2306 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.

Date of Government Version: 09/02/2008 Date Data Arrived at EDR: 09/03/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 16

Source: Ohio Environmental Protection Agency

Telephone: 614-644-2306 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Semi-Annually

VCP: Voluntary Action Program Sites

Site involved in the Voluntary Action Program.

Date of Government Version: 09/05/2008 Date Data Arrived at EDR: 09/05/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 14

Source: Ohio EPA, Voluntary Action Program

Telephone: 614-728-1298 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing A listing of drycleaner facility locations.

Date of Government Version: 05/07/2008 Date Data Arrived at EDR: 05/09/2008 Date Made Active in Reports: 06/24/2008

Number of Days to Update: 46

Source: Ohio EPA Telephone: 614-644-3469 Last EDR Contact: 08/20/2008

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies

BROWNFIELDS: Ohio Brownfield Inventory

A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 07/25/2008 Date Data Arrived at EDR: 08/11/2008 Date Made Active in Reports: 09/04/2008

Number of Days to Update: 24

Source: Ohio EPA Telephone: 614-644-3748 Last EDR Contact: 07/25/2008

Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Varies

CDL: Clandestine Drug Lab Locations

A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 03/01/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/24/2008

Number of Days to Update: 10

Source: Ohio EPA Telephone: 614-644-2080 Last EDR Contact: 09/02/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Varies

NPDES: NPDES General Permit List

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 06/30/2008 Date Data Arrived at EDR: 09/03/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 16

Source: Ohio EPA Telephone: 614-644-2031 Last EDR Contact: 09/03/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Semi-Annually

AIRS: Title V Permits Listing

A listing of Title V Permits issued by the Division of Air Pollution Control. It is a federal operating permit program adopted and implemented by the state. The basic program elements typically specify that major sources will submit an operating application to the specified state environmental regulatory agency according to a schedule.

Date of Government Version: 07/08/2008 Date Data Arrived at EDR: 07/18/2008 Date Made Active in Reports: 07/25/2008

Number of Days to Update: 7

Source: Ohio EPA Telephone: 614-644-2270 Last EDR Contact: 07/18/2008

Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Varies

USD: Urban Setting Designation Sites

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 09/03/2008 Date Data Arrived at EDR: 09/04/2008 Date Made Active in Reports: 09/19/2008

Number of Days to Update: 15

Source: Ohio EPA Telephone: 614-644-3749 Last EDR Contact: 09/03/2008

Next Scheduled EDR Contact: 12/01/2008 Data Release Frequency: Varies

HIST USD: Urban Setting Designations Database

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005 Date Data Arrived at EDR: 04/25/2006 Date Made Active in Reports: 05/11/2006

Number of Days to Update: 16

Source: Ohio EPA Telephone: 614-644-3749 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

HIST INST CONTROLS: Institutional Controls Database

"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005 Date Data Arrived at EDR: 04/06/2006 Date Made Active in Reports: 05/04/2006

Number of Days to Update: 28

Source: Ohio EPA Telephone: 614-644-2306 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

HIST ENG CONTROLS: Operation & Maintenance Agreements Database

Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005 Date Data Arrived at EDR: 04/04/2006 Date Made Active in Reports: 05/04/2006

Number of Days to Update: 30

Source: Ohio EPA Telephone: 614-644-2306 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 08/08/2008

Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 08/25/2008

Next Scheduled EDR Contact: 11/24/2008 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008

Number of Days to Update: 40

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008

Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008

Number of Days to Update: 6

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/22/2008 Date Data Arrived at EDR: 08/22/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 18

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008

Number of Days to Update: 40

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/05/2008 Date Data Arrived at EDR: 09/05/2008 Date Made Active in Reports: 09/23/2008

Number of Days to Update: 18

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008

Number of Days to Update: 28

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/21/2008 Date Data Arrived at EDR: 09/04/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 5

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/21/2008 Date Data Arrived at EDR: 09/04/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 5

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008

Number of Days to Update: 28

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/22/2008 Date Data Arrived at EDR: 08/22/2008 Date Made Active in Reports: 09/09/2008

Number of Days to Update: 18

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008

Number of Days to Update: 40

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008

Number of Days to Update: 6

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007

Number of Days to Update: 21

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2008 Date Data Arrived at EDR: 09/05/2008 Date Made Active in Reports: 09/23/2008

Number of Days to Update: 18

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 12/21/2007 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 34

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 08/18/2008

Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007

Number of Days to Update: 66

Source: Department of Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 09/12/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007

Number of Days to Update: 27

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 08/08/2008

Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/23/2008 Date Data Arrived at EDR: 08/28/2008 Date Made Active in Reports: 09/11/2008

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/28/2008

Next Scheduled EDR Contact: 11/24/2008 Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 09/11/2008 Date Made Active in Reports: 10/02/2008

Number of Days to Update: 21

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 09/08/2008

Next Scheduled EDR Contact: 12/08/2008 Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008

Number of Days to Update: 65

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 09/15/2008

Next Scheduled EDR Contact: 12/15/2008 Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/26/2008 Date Made Active in Reports: 04/09/2008

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 802-241-3443 Last EDR Contact: 08/11/2008

Next Scheduled EDR Contact: 11/10/2008 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 08/22/2008 Date Made Active in Reports: 09/08/2008

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 10/06/2008

Next Scheduled EDR Contact: 01/05/2009 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities Source: Department of Job & Family Services

Telephone: 614-466-6282

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 614-265-1044

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CADIZ DROP ZONE BUSBY RD & SLATER RD CADIZ, OH 43907

TARGET PROPERTY COORDINATES

Latitude (North): 40.22966 - 40° 13' 46.8" Longitude (West): 81.05075 - 81° 3' 2.7"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 495682.4 UTM Y (Meters): 4453038.5

Elevation: 1102 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 40081-B1 FLUSHING, OH

Most Recent Revision: 1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

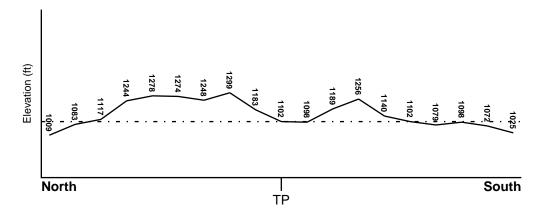
TOPOGRAPHIC INFORMATION

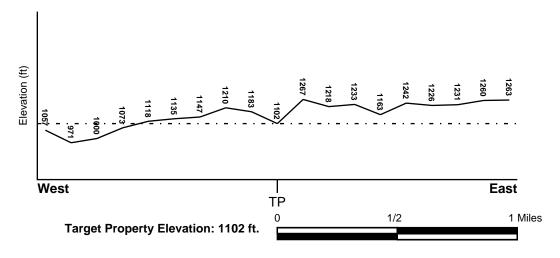
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County FEMA Flood Electronic Data

HARRISON, OH Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
FLUSHING

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

TC2336628.2s Page A-3

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic Category: Stratifed Sequence

System: Pennsylvanian Series: Virgilian Series

Code: PP4 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: FAIRPOINT

Soil Surface Texture: shaly - clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to

water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

| | Soil Layer Information | | | | | | | |
|----------|------------------------|----------------|----------------------|---|---|------------------------------|------------------------|--|
| Boundary | | Classification | | | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | Permeability Rate (in/hr) | Soil Reaction (pH) | |
| 1 | 0 inches | 5 inches | shaly - clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 0.60 Min: 0.20 | Max: 7.30 Min: 5.60 | |
| 2 | 5 inches | 60 inches | shaly - clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel | Max: 0.60 Min: 0.20 | Max: 7.30 Min: 5.60 | |

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam

sandy loam

Surficial Soil Types: silt loam

sandy loam

Shallow Soil Types: channery - sandy loam

loam silt loam silty clay loam

Deeper Soil Types: unweathered bedrock

stratified

weathered bedrock

silt loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

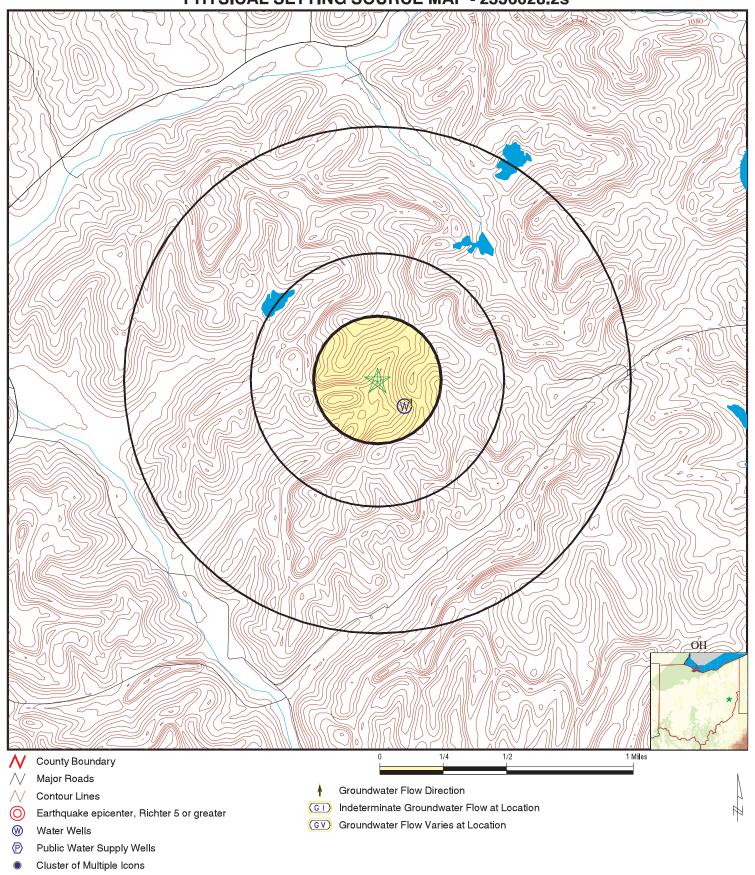
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

1 OHD100000037968 1/8 - 1/4 Mile SE

PHYSICAL SETTING SOURCE MAP - 2336628.2s



SITE NAME: Cadiz Drop Zone
ADDRESS: Busby Rd & Slater Rd
Cadiz OH 43907
LAT/LONG: 40.2297 / 81.0507

CLIENT: Earth Tech Inc.
CONTACT: Carl Rykaczewski
INQUIRY#: 2336628.2s

DATE: October 08, 2008 4:23 pm

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

| | | Database | EDR ID Number |
|--------------|---|--|---|
| | | OH WELLS | OHD100000037968 |
| 246298 | Well type : | W | |
| 67 | Twp code: | 440 | |
| Not Reported | Orig own 1: | HANNA COAL CO. | |
| Not Reported | Aquifer ty: | SHA | |
| Not Reported | St no: | Not Reported | |
| Not Reported | St type co: | Not Reported | |
| Not Reported | State code: | OH | |
| Not Reported | Horiz x: | 2405196.09 | |
| 207911.41 | Latitude: | Not Reported | |
| Not Reported | Total dept: | 59 | |
| | 67 Not Reported 207911.41 | 67 Twp code: Not Reported Orig own 1: Not Reported Aquifer ty: Not Reported St no: Not Reported St type co: Not Reported State code: Not Reported Horiz x: 207911.41 Latitude: | OH WELLS 246298 Well type: W 67 Twp code: 440 Not Reported Orig own 1: HANNA COAL CO. Not Reported Aquifer ty: SHA Not Reported St no: Not Reported Not Reported St type co: Not Reported Not Reported State code: OH Not Reported Horiz x: 2405196.09 207911.41 Latitude: Not Reported |

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

| Zip | Total Sites | Median | 1st Quartile | 3rd Quartile | Min. | Max. |
|-------|-------------|--------|--------------|--------------|------|------|
| _ | | | | | | |
| 43907 | 17 | 4.8 | 2.4 | 8.6 | 1.2 | 39.5 |

Federal EPA Radon Zone for HARRISON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 43907

Number of sites tested: 4

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L Living Area - 1st Floor Not Reported Not Reported Not Reported Not Reported Not Reported Living Area - 2nd Floor Not Reported Not Reported Not Reported 4.425 pCi/L Basement 75% 25% 0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 614-265-1044

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data

Source: Ohio Environmental Protection Agency

Telephone: 614-644-3677

The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database

Source: Department of Natural Resources

Telephone: 614-265-6747

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon Source: Department of Health Telephone: 614-644-2727

Radon Statistics for Zip Code Areas

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

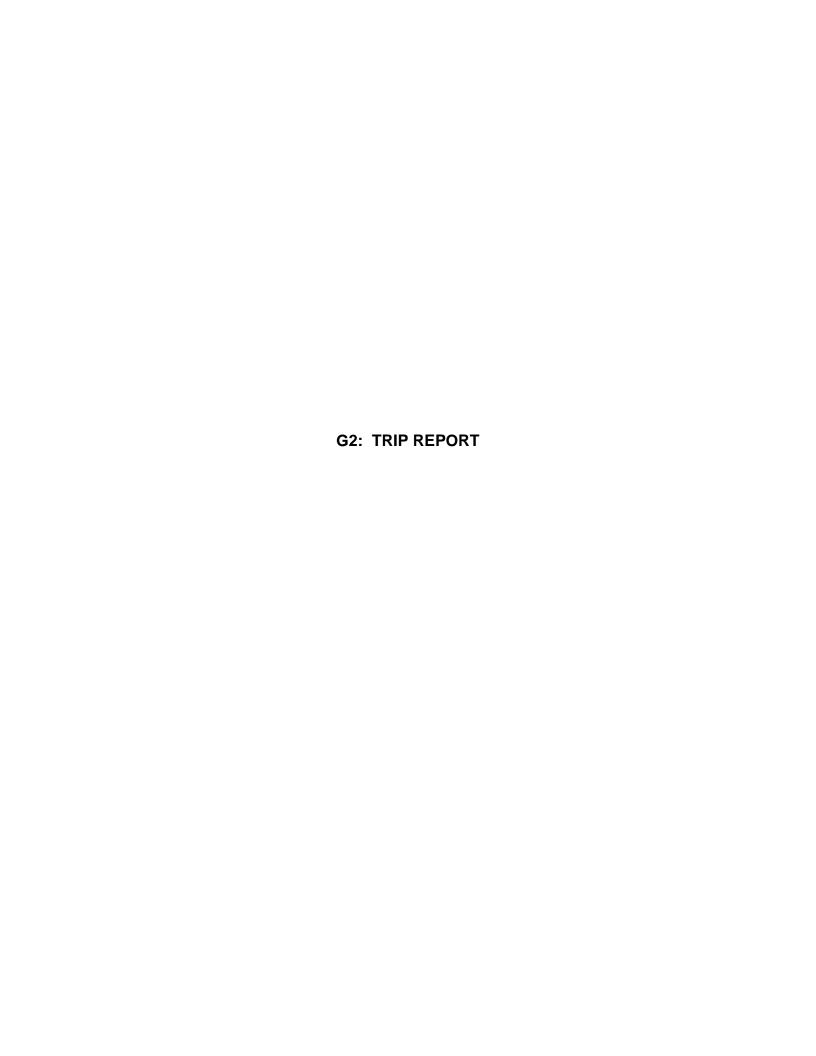
Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

24 October 2008

U.S. Department of the Air Force HQ AFRC/A7PP Attention: Ron Scandlyn 220 Richard Ray Blvd

Robbins Air Force Base, GA 31098-1637

Contract No.: FA4890-04-D-0007

Delivery Order No.: 5Y01

Subject: Cadiz Drop Zone Environmental Assessment (EA)/Environmental Baseline

Survey (EBS) – Pittsburgh International Airport Air Reserve Station

Dear Mr. Scandlyn:

The subject site visit and data collection trip was conducted during 14-16 October 2008.

Meetings

Kick-Off Meeting

The kick-off meeting was held on 14 October at Pittsburgh IAP ARS. The following were in attendance:

| <u>Name</u> | <u>Organization</u> | <u>Telephone</u> |
|--------------------------|---------------------|------------------|
| Frank Sniezek | 911 AW/CEV | 412.474.8428 |
| Joseph Matis | 911 AW/CEV | 412.474.8749 |
| Thomas Kutchenriter | 911 MSG/CER | 412.474.8569 |
| Robert Moeslein | 911 MSG/CE | 412.474.8571 |
| Lt Col Aldo Filoni | 911 OSF/OSTX | 412.474.8606 |
| Lt Col William Gutermuth | 911 AW Safety | 412.474.8513 |
| Maj Todd McCrann | 911 LRS/CC | 412.474.8509 |
| Ashley Hileman | CONSOL Energy | 724.825.7816 |
| Lynn Manning | CONSOL Energy | 724.485.4039 |
| Tim Schivley | CONSOL Energy | 724.485.4511 |
| Carl Rykaczewski | Earth Tech AECOM | 909.554.5052 |
| Nora Castellanos | Earth Tech AECOM | 909.554.5008 |

The following represent major points of discussion:

- CONSOL Energy expressed concerns that this EA/EBS could raise issues that could adversely affect CONSOL Energy. They referenced a problem at one of their sites due to disturbance to the Indiana bat, a federally-listed species. They would like us to meet with their environmental department personnel.
- The proposed drop zone site is in an area already used for low-level flight activities and these activities have been analyzed in an EA.
- There are no noise complaints from use of the current drop zone, Starvaggi.
- The drop zone would be approved for paratrooper drops, but these are not a routine activity and are normally conducted at other locations. Paratrooper drops would likely only happen once or twice per year as part of a special exercise. Such an exercise may require its own NEPA analysis. However, the 911 AW prefers that this EA include this activity.
- Cattle have been grazing on property for about two years.
- The 911 AW has mapped no-fly area to avoid overflight of the nearby Harrison County Airport.
- Most air drop exercises occur at evening and so most airdrop flights would occur after the Harrison County Airport is closed.

DOPAA Discussion

A meeting was held among Lt Col Filoni, Lt Col Gutermuth, Mr. Sniezek, Ms. Castellanos, and Mr. Rykaczewski on 15 October to discuss details of the proposed action. The following represent major points of discussion regarding the proposed action from this meeting and from other discussions:

- Targets used on the drop zone would be set up and removed for each airdrop. Concrete blocks that may be used mark the target location may be left in place between airdrop events, but no permanent structures would be installed. The target would consist of a raised angle marker (RAM) consisting of a bright orange tent-like structure that is angled to face the direction of the approaching aircraft. For night drops, battery powered lights using 9-volt batteries would be set up.
- Visual confirmation of the target is mandatory for drop exercise. No instrument-only drops would be conducted. Air drops would not be conducted during weather conditions that do not allow visual confirmation of the target.
- The Harrison County Airport averages one airplane a day, although this does not necessarily mean a single sortie (i.e., the single plane could take off and land more than once per day).
- The 911 AW does not currently coordinate with the FAA to publish drop zone site information on FAA charts and airport publications, and probably would not plan to do this for the Cadiz Drop Zone.
- Flight safety is currently revising the existing Military Airspace Collision Avoidance (MACA) plan to include the new drop zone.
- The 911 AW has visited the Harrison County Airport and discussed the potential new drop zone.



- A Notice to Airmen (NOTAM) would be issued for airdrops. The NOTAM would be added to the current NOTAM for low-level training.
- Low-level flight areas cover four states, including proposed lease property
- The MACA includes placing a radio call into the local airport to clear local traffic as the aircraft approach the drop zone. There will be both aircraft-to-aircraft and ground safety-to-aircraft communication.
- Visual assurance that no other aircraft are in the drop zone prior to an airdrop is part of standard procedures.
- A typical airdrop training day includes three separate flights with two planes each in the morning, afternoon/evening, and at night. During each flight each of the two planes would make two drops for a total of 12 drops in one day.
- The total flight time for an air drop is approximately 2 hours.
- The aircraft adjust to the drop altitude 10 miles out from the drop zone. This may be lower or higher than the transit altitude. At five miles past the drop zone, the aircraft would be back to the en-route altitude (i.e., at 2500 above mean sea level).
- Material recovery would require two people for training bundle drops and six people for actual load drops. Material recovery after an actual load drop would require use of a forklift, full-size pickup trucks, and a flatbed truck
- The Tater Drop Zone is located in Indiana County, PA. It is only large enough to conduct training bundle drops.
- This EA will not address bivouac activities.
- The FONSI and EBS signature blocks will read Gordon H. Elwell, Colonel, USAFR, Installation Commander.

Meeting with CONSOL Energy Personnel

A meeting was held at CONSOL Energy, Canonsburg, PA, on 15 October to discuss information on the proposed lease site property that is owned by CONSOL Energy. The following were in attendance:

| <u>Name</u> | <u>Organization</u> | <u>Telephone</u> |
|--------------------|-------------------------|------------------|
| Denny McCracken | CNX Land | 724.485.4088 |
| Kim Raeder | CNX Land | 724.485.4611 |
| Bill Weir | CNX Environmental | 724.485.4604 |
| John Owsiany | CNX Environmental | 724.485.4503 |
| Jim Poland | CNX Env & Engr Services | 724.485.4317 |
| Lt Shawn M Walleck | 911 AW Public Affairs | 412.474.8750 |
| Frank Sniezek | 911 AW/CEVE | 412.474.8428 |
| Lt Col Aldo Filoni | 911 AW | 412.474.8439 |
| Carl Rykaczewski | Earth Tech AECOM | 909.554.5052 |
| Nora Castellanos | Earth Tech AECOM | 909.554.5008 |

The following represent major points of discussion:

- There is no information on property use before it was mined. CONSOL Energy will try to provide information on the previous owner(s) and land uses.
- The proposed lease site is an area that was mined under two separate permits.

- Mining occurred from approximately the early to mid 1980s to the early to mid 1990s.
- Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s.
- After reclamation, bond releases occur in two phases:
 - o Phase 1 after completion of site grading
 - o Phase 2– after completion of seeding
 - o Phase 3 (Final Release) after 5 years of maintenance. No ground disturbance is allowed. This could affect the bond release.
- The final bond release has been granted for this property. CONSOL Energy's intent is to sell the property.
- Ohio Department of Natural Resources (ODNR) Mineral Resources Division has regulatory control over mining; however, both the state and the federal Office of Surface Mining do inspections.
- Mining permit conditions state reclamation guidelines. Mining regulations are located in Admin. Code Title 15, Chapter 1513, and Revised Code 1501-13 (for coal).
- CONSOL Energy has owned the property since at least before the early 1980s, and will try to provide more detailed information on how long they have owned it.
- Cattle grazing has been occurring probably since the mid to late 1990s.
- The forested areas were most likely not mined.
- CONSOL Energy will try to provide the approximate total acreage of this mine site, but it was guessed at approximately 2,500 acres.
- The site lies within Cadiz Township, Harrison County, Ohio.
- ODNR would have old permit records, reclamation guidelines.
- CONSOL Energy personnel had no knowledge of the well that the database search indicates is on or near the site. However, since its owner is listed a Hanna Coal Company, which subsequently became part of CONSOL Energy, it probably pre-dates mining activities and was likely destroyed during mining.

Visual Reconnaissance Inspection

The VRS of the proposed drop zone property was conducted on 14 October 2008. Mr. Sniezek, Lt Col Filoni, Lt Col Gutermuth, and Mr. Schivley escorted Ms. Castellanos and Mr. Rykaczewski during the survey of the property.

- There is a single road traversing the central portion of the proposed drop zone.
- The center of the proposed drop zone along the access road is relatively level; however, sloping areas are present to the north, south, and east. Two apparently artificial ponds created during the mine reclamation, are present in the northern portion of the drop zone area.
- No structures are present.
- The vegetation on most of the site consists of grazed grasses, legumes (clover, vetch), and other herbaceous plants (e.g., chicory, aster, queen anne's lace, goldenrod, teasel).
- There is a "puddle" near the center of the circular drop zone. It was dry during the site visit and appeared heavily trampled by cattle; however, some bulrushes (wetland species) were observed growing. It appeared than when full of water, it could be 1.5-3 feet deep.

- There are small wooded areas on the southern and western areas of the property. The southern wooded area also contains some wetlands and a small creek. Airdrop activities are planned for the center of the lease area (within 300 yards of the target) and should not affect the wooded and wetland areas near the perimeter.
- Tree species noted in the southern wooded area include sycamore, black locust, sugar maple, silver maple, cottonwood, ash, and black walnut. Common understory plants noted are poison ivy, brambles, and bush honeysuckle.
- Wetland areas included cattails and willows.
- White-tail deer and several bird species (mallard, northern harrier, black vulture, turkey vulture, kestrel, crow, northern flicker, and yellow-rumped warbler) were observed on or near the site.
- The site is within the 911 AW's low-level training area and they currently fly aircraft as low as 500 ft above ground level in this area; however, the frequency of low-level flights at this specific location would increase after establishment of the drop zone.
- Local emergency personnel would be contacted in the event of injuries

Local Data Collection

The ODNR office in Cadiz, Ohio (this location is for soil conservation only) indicated that the nearest ODNR mining office is in Cambridge, POC is Dave Clark, (740.439.9079), and the nearest ODNR wildlife office is in Akron, POC Daniel McMillen (330.644.3802 X3025).

The engineering department in the Harrison County Courthouse indicated that there is no county general plan and that neither Cadiz nor Athens townships have any zoning.

Action Items

- Mr. Sniezek to contact Max Shiflet, environmental manager at the Youngstown ARS, for a potential IICEP mailing list relevant to Ohio.
- Connie Barrett, real property (412.474.8721) to look into whether the U.S. Army Corps of Engineers has started the real estate process for leasing the drop zone property.
- CONSOL Energy to try to provide the following:
 - o Copies of deeds for the parcels included in the potential lease area
 - o Copy of, or date of, the final bond release for the applicable portion(s) of the mine site
 - o How long CONSOL Energy has owned the property
 - o Information on previous owners
 - o Information on previous land use
 - o Approximate acreage of the entire mine site
- Earth Tech AECOM to provide example agency consultation letters to Mr. Sniezek.

Data Collected

The following materials were collected:

- Environmental Assessment for Project JLSS 93-0042 Bivouac and Exercise Area Mingo Drop Zone, Pittsburgh IAP ARS, May 1995
- Memorandum for HQ AFRC/A3TA, New Drop Zone Procedures, March 2008
- Final Pest Management Plan, Pittsburgh IAP ARS, August 2008
- General Plan, Pittsburgh IAP ARS, December 1998
- Final Hazardous Waste Management Plan for Pittsburgh International Airport Air Reserve Station, Ecology and Environment, Inc., February 2003
- Final Hazardous Materials Emergency Planning and Response (HAZMAT) Plan for Pittsburgh Air Reserve Station, e²M, March 2008
- Integrated Solid Waste Management Plan for Pittsburgh International Airport Air Reserve Station, Ecology and Environment, Inc., March 2003
- Stormwater Pollution Prevention Plan, 911th Airlift Wing Pittsburgh International Airport Air Reserve Station, Moon Township, Pennsylvania, EA Engineering Science and Technology, Inc., August 2006
- Electronic files of figures showing drop zone boundaries, no fly zones, and parcels.

If you have any questions or comments, please contact me at (909) 554-5052.

Very truly yours,

Earth Tech Inc.,

Carl Rykaczewski

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Senior Environmental Professional

cc: Frank Sniezek, 911 MSG/CEVE Marsha Denning, HQ AFRC/A7KA



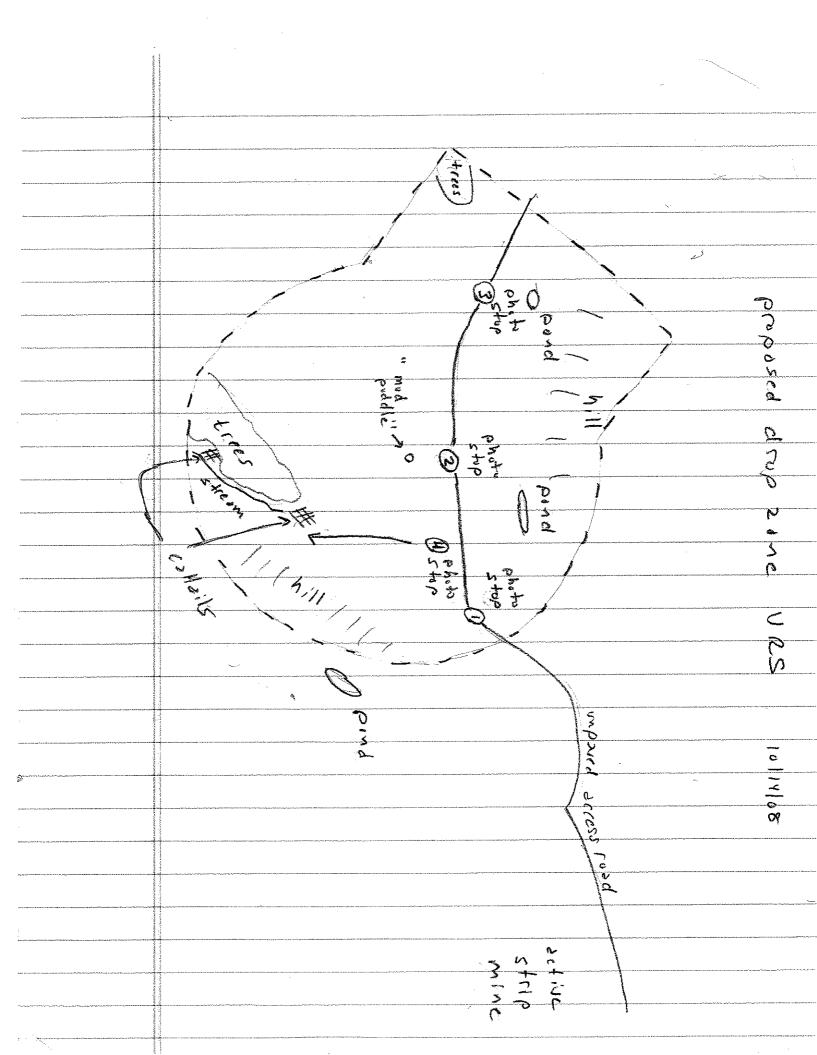
Cadiz Drop Zone

Date 10/14/2008 AOC **ENVIRONMENTAL BASELINE SURVEY** Inspector(s) CDP, NC & ENVIRONMENTAL ASSESSMENT UST Facility Escort(s) FRANK, LITTOL FILLDA AST Visual Reconnaissance Survey (VRS) Organization(s) ET, CONSOL, Accum. Pt. **OWS** Facility: # Name/Current Use CADIZ DROP ZONE Past Use: Same as above STRIP HIDE (RECLAIME) Location/Topography: POLLING HILLS, SW of CADIZ Major Renovations: Redamine Activities Year of Construction: Does/Did facility use Hazardous Material: Yes No Types: Does/Did facility store Hazardous Material: Yes No Does/Did Facility generate Hazardous Waste: Yes No Types: Does/Did Facility store Hazardous Waste: Yes No If Yes Accumulation point # Satellite point Other _____ Years of Storage: Types of Storage: Disposal practices: "Housekeeping" in and around building is Good Poor not applicable If Poor: Effluent/discharged waste destination: Sanitary Sewer Industrial Sewer Septic Tank Storm Drain Other: None - Natural Conditions not mentioned that present concerns: Interviews: LT. COL. FILOSI THY SCHUELY (COSOL)

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BUILDING INSPECTION CHECKLIST

| Are the | ere any signs | of the following on the property Y Yes _ | <u>N</u> No _ | <u>Unk</u> Unknown | |
|-----------------|---------------|--|---------------|---------------------------------------|-----------------------------------|
| | | Content Size Status | | | |
| A) | <u>~~</u> | UST | J) | _ 1 | Noxious Odors |
| B) | 7 | AST | K) | 7 | Radioactive and Mixed Waste |
| C) | <u></u> | OWS | L) | _ N | Fill Areas/Buried Objects |
| D) | <u>\\ \</u> | IRP Site | M) | 7 | Drums/Drum Storage |
| E) | 7 | Waste Piles/Evidence of improper disposal Minor AOC | N) | 4 Bout | Surface Water w/in ft. to _ |
| F) | | Transformers PCBs Unknown PCB Free Label | O) | | Sensitive Receptors w/in ft. to _ |
| G) | N | Floor Drains discharge to | P) | N | Flaking Paint |
| Ο, | | Tiodi Dianis discharge to | Q) | 7 | Potential ACM |
| H) | <u> </u> | Evidence of Spills/Staining Minor AOC | R) | <u> </u> | Other |
| I) | 4 | Discolored Soil/Stressed vegetation Minor AOC | | | |
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The EDR Environmental LienSearchTM Report



Busby Rd & Slater Rd HARRISON Cadiz, OH 43907

Project Number: 2336628.7S

Index Date: 10/31/2008

The Standard in Environmental Risk Information

440 Wheelers Farm Road Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

Other AUL's:

Found

| <u>ADDRESS</u> | |
|------------------------------|--|
| CLIENT REF | 2336628.7S |
| Site Address | BUSBY RD AND SLATER RD |
| Site CSZ | CADIZ, OHIO 43097 |
| RESEARCH SOURCE | |
| Sources: | HARRISON |
| DEED INFORMATION | |
| Type of Deed: | Conveyance of Coal Properties and Reservation of Production Payment |
| Title is vested in: | Consolidation Coal Company, a Pennsylvania Corporation |
| Title received from: | Consolidation Coal Company, a Delaware Corporation |
| Deed Dated: | 09/15/1966 |
| Deed Recorded: | |
| Book: | 157 |
| Page: | 55 |
| LEGAL DESCRIPTION | |
| Description: | SITUATED IN THE STAE OF OHIO, COUNTY OF HARRISON, TOWNSHIP OF SHORT CREEK, BEING MORE FULLY DESCRIBED IN VOLUME 157, PAGE 146 RECORDED IN THE COUNTY OF HARRISON, TOWNSHIP OF SHORT CREEK, OHIO. |
| Assessor's Parcel Number: | 04.0000094.000 04.0000072.000 04.0000070.000 02.0000271.000 02.0000212.000 |
| ENVIRONMENTAL LIEN | |
| Environmental Lien: If yes: | Found Not Found |
| OTHER ACTIVITY AND U | SE LIMITATIONS (AULs) |
| | |

Not Found 🔀

EDR Environmental LienSearch™ Report

Copy of Deed and any instruments.

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(d) "Developed Bubjaci Interest" shall mean any

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of the Undeveloped Subject Interests, but no such Developed Subject Interest may be diminished by the transfer of a portion thereof in an Undeveloped Subject Interest without the consent of the Grantor.

(e) "Effective Date" shall mean 11.59 P.M. September 15, 1966, determined as to each locality in accordance with the time then generally observed in such locality.

(f) "Exhibit 4" shall mean Exhibit A attached hereto and hereby made a port of both Part I and Part II haven.

(g) "Gross Income" shall mean "gross income from mining" under Section 615(s)(1) of the Internal Revenue Code of 1954, as in effect on the Effective Date.

(h) The term "independent", when applied to any parson, shall mean a person (1) which is in fact independent, (2) which does not have any substantial interest, direct or indirect in the Grantee or in any Affiliate of the Grantee, (3) in which the Grantee or any Affiliate of the Grantee does not have any substantial interest, direct or indirect, and (4) which is not connected with the Grantee or any Affiliate of the Grantee as an officer, employee, promoter, underwriter, trustee, partner, director or person performing similar functions.

(!) "Mine" shall mean a single facility or related group of Incillities for the extraoriou of Subject Coul. Whisher a facility or group of facilities constitutes one or more than one Mine shall be determined in accordance with the statementy practices of the Grantee consistently applied; provided, Aspesser, that the facilities lossed in each Daveloped Subject Interest described or referred to in Appendix II to the Weir Report shall constitute a single Mine.

(j) "Mins Espansion" shall mean an increase, other than an increase described or referred to in Appendix I to the Weir Report, in the mechinery, equipment or other facilities comprising a Mine to the extent that the same results in an increase in the Rated Mine Capacity of each Mine.

(k) "Not Mine Revenue" with respect to any Developed Subject Interest shall mean the Gross Incappe attributable to Subject Ceal produced from such Developed Subject Interest

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| · | - | - | | | Coel | #] | 4 | 1 | | | Cont | lb ject | | T fa | A Tab | Excess . | | | | La or | in the state of th | rentor | 4 | | . , | 157 | · |
| | | - | | Juttini Praduction Bagmerel Precentagen | I. The Initial Production Payment Percentage for Subject Goal | Subject Interest from the Effective Date to and landsling October 21, | each note in the second of the | during the last calendar month is which there that have been produc- | ting pinciple and deed of descriptional into the forester, that at the terminal deed of deed for the forester, that at the time of the forester, that at the time of the forester for the forester for the theoreter for the time of the forester for the time of the forester for the time of the forester forester for the time of the forester foreste | Sabject Interest anosed 95%, | II. The Initial Production Payment Personnings for Subject Con- | the of apprincipal of anticomment of the same of the s | This result is the desired and the second se | III. The Initial Production Payment Fernantage for Subject Opel empretage or attributable to each Bubject Interest which is a regralty. | interest shall be 100% of such reyalty interest after deducting any seventes was such to third markes with respect to make Subject Cost | and any of soleton, severanos, mining, coorpailon, gathering, gross | respicts and similar large sectionaries to the present of the cash Bubject Coal. | Production Baguered Percentuges | Par Bendappd Bublert Jaterrale | (a) The Profuction Paymest Percuriage for Subject Coef. In or secretary or attribute to each Developed Subject | Interest shall commescing with November 1, 1966, be automatically ad- | thorsto to such percentage as will result in the receipt by the Grantor | of 57% action but allow povernes accidentates to be calculated from the control of the calculate from the first state of the calculate of the | State. Adjustization cocurs man, analyses | | F | |
| | | | | ٠ | | | | | | | • | | | | | | 7 | | | | | | | | · | | |
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(b) below, a similar adjustment from such Initial Production Payment Percentage shall take place with respect to such Subject Coal on the first day of each succeeding salendar month.

(b) If, however, as of the close of business on any data specified in the table below the unliquidated halance of the Primary Sum shall be greater than the amount specified epposite such data;

| | Date | Primary Sum | Date | Princip Con |
|---|--------------|--------------------|------------------|---------------|
| | Jan. 1, 1968 | \$450,000,000 | July 1, 1975 | \$222,000,000 |
| | July 1, 1969 | 439,000,000 | Jan. I, 1978 | 207,000,000 |
| | jan. 1, 1969 | 423,000,000 | July 1, 1078 | 190,000,000 |
| | July I. 1089 | 413,000,000 | jes. 1, 1977. | 173,000,000 |
| | Jan. 1, 1070 | 305,000,000 | July 1, 1977 | 157,000,000 |
| | July L 1970 | 389,000,000 | Jan. 1, 1976 | 141,000,000 |
| | Jan. I. 1971 | 385,000,000 | July 1, 1978 | 125,000,000 |
| | july 1, 1971 | 349,000,000 | Jen. 1, 1979 | 108,000,000 |
| | jan, 1, 1972 | 333,000,000 | July 1, 1979. | 01,000,000 |
| | July I, 1972 | 317,000,000 | Jun. 1, 1980 | 74,000,000 |
| | Jan. 1, 1973 | 300,000,000 | July 1, 1980 | 50,000,000 |
| | July 1, 1973 | 225,000,000 | Jen. 1, 1961 | 38,000,000 |
| | Jan. 1, 1974 | 200,000,000 | July 1, 1981 | 10,000,000 |
| • | July 1, 1974 | 253,000,000 | Nov. 1, 1981 and | |
| | lan. 1. 1975 | 239 000 000 | 4 | |

Thes, all Production Payment Percentages for Subject Coal in or produced from or securing or attributable to the Developed Subject Interests shall, communing with such date, be extonationly adjected to whichever of the following alternatives will cause the Oranior to receive the larger interest (in terms of value) in the Subject Coal produced from all Developed Subject Interests, taken in the largregate, in the calendar month in which each adjustment occurs:

(i) the Initial Production Payment Percentages for such menth, or

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(ii) such percentages as will result in the receipt by the Grantor of 100% of the Net Mine Revenue, plus depreciation attributable to Subject Coal produced from each Developed Subject Interest during such month.

Subject to the provisions of paragraph (c) below, a similar adjustment shall take place on the first day of each reconsiling calendar month for Subject Coal in or produced from or according or attributable to the Developed Subject Interests during such month.

(e) If the unliquidated belance of the Primary Sum on or prior to any data specified in the table above subsequent to any adjustment provided in paregraph (b) above shall be equal to or less than the amount specified opposite such fate, then, commanding with the first day of the calcular mouth in which each condition occurs, an adjustment from the Initial Production Payment Percentage applicable to each Developed Subject Interest shall again take place in the mapper provided in paragraph (a) above,

(d) The foregoing paragraphs (a), (b) and (c) shall apply to summerive situations. In me event, however, shall the provisions of this Section require the Grantor to return to the Grantse any proceeds of Production Payment Coal received and applied by the Grantor pursuant to Section 13.

AND THIS CONVERGE FURTHER WITSHINGS that, for the consideration aforesaid, the Grantor by these presents does, effective as of the Effective Date, grant, bargain, sell, convey, sarige, transfer, set over and deliver unto the Grantse all of the Grantse's right, title and interest in and to all property, whether personal, real (other than Coal interests) or mixed, tangible and intengible, and all improvements, executive, permits, licenses, carvitudes and rights of way, situated spon or used or nestal or held for future use in connection with the exploration, development or operation of the Subject Interests, or the mining, presseing, treating, storing or transportation of Coal there-from, including but not by way of limitation, all railroads, tracks, sidings. Mine tracks, rolling stock, storage facilities, buildings and structures of every kind and nature, fixtures, ongines, bollers, trem-ways, cars, oables, motors, fans, denning, preparation and other plants,

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| | power power power one, all trades, ed the | d, bar- ared as amosph- | to the transfer of the control of th | net Coal net Coal subsequently | scharge- for any rate. Payment adout to used by lines for upose of | . , |
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| | machinery transform d other a moits, lies id being h | s, rights, note berei i, set over ad ausigne- rating Pro | regultes, t Conj' si without | neal Producti for such ment shall from say rextent o | ment challenges the But in the From From From From From From From From | 157 mg |
| 23 | r machines and other betutions, e, roads as erseats, pe | properties appartents tradificare and consistent an | Conveyed totherwise of Paymen toth Cost, the or exp | of the Correct to the Correct to the Indian Pay resulting to the Market | totion Pay tick the Grand and of sur, to included them any if | ğ |
| - | toole, imploments, utunils, mighing machines, loading machines, power abavels, dregilates, dozers, transits and other machinesy said equipment, dregilates, water lisses, substitutions, transforces parels, power listes, talegiese and telegraph listes, roads and other appuriements, powers when you can be an experimentally each property, incomes a serviced excepted of way and other rights as aforested painty and other rights as aforested baing berein only of the contraction of the contr | To Rave, and we Hand the properties, rights, titles, interests, seitles, powers, privileges and apportreasance bereloy granted, har-guides, to severate as delivered as aforest and delivered as aforests, in successors and safigns, forever, among lag and reserving as provential. Barnos 12. Certain Providesas Goosesting Production Pegensis | All the provingens of this Conveyines hags by explosit to the man. A. Unkest the context otherwise requires, the words "Bubblet Coal" and "Production Payment Coal" shall be demond to fred to the "by the with "wheel he was proceeded to fresh Coal" without any deduction on account of arm coals, shartes in cornerse. | B. For the diselarge of the Cornel Production Payment the Branto- shall look excitatively to the Production Payment Coales of Consoler and the Cart of the Holdstree. C. The Cossol Production Payment shall not be dissipated belonger or of any products resulting from any manufacturing or proceeding operation, areasy to the extent of that portion of many products its waite of which represents the Greek Indeed attributed by the Bulyer Coale. | D. The Omest Production Payment that I not be illechairs— base on of any bones which the Genetes shall repeirs for uny lease, millesse or sanigranate of any of the Bublect Interestic E. There shall not be included in the Production Payment Coal any Goal best in the mining so the processing isolatest is mining threated or mind from any follogic threates and used by the Genete is conformity with good industry practices the mining expressed to minds. | |
| | bools, implemente, utunile, n nhuvele, dragilnes, dozer, tr ipplias, water lines, gra line lines, telaphores and telegrap lines, telaphores, improvement rights of way and other tri 'Ajalogned Appurtementes.' | To Have, and we Hend it states, powers, privides and states, sowers, privides and toloresid exte to demits, its age and reserving as proveniel. Becton 12. Certain Prop. | n Dutens (col.) and (c | B. For the otto- shall le the Grants C. The Co ort of any seesahig open to product to the | D. The Co out of any e, sublement E. There I any Coal lag thereof Grantes in | - |
| • | is, imploming drag drag drag to the property of water drag drag drag drag drag drag drag dra | To HAVE, AND MEN, INC., AND MEN, WORLD, WORK, WASHINGTON, CARLOW, LANGUAGE CONTRACT OF THE CON | following: | ed of the property of the prop | de College | · · · · · · · · · · · · · · · · · · · |
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producing Supject Coal from the Subject Interests, but only so long as such Coal is so used.

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the Rabad Mine Capacity of such Mine as projected prior to such Mine Expansion. "Recepcible Costs." shall hands only the sistend of the Granteen of above, transportation, other services, materials, equipment and supplies (including a reasonable allocation for division overbead and gangral act maintainties everland), and manuscribe and gangral act ministrative everland), and manuscribe and gangral act ministrative everland), and manuscribe and equipping of a Mine Expension for the production of Siniter Mine are Mine Streamly and or independent for the designing, installing, completing and equipping of a Mew Mine or Mine Marcadon Tot the production of Siniter Cost, bell Benorgable Costs shall not include any contribution for the manuscript of a Mine Expension for the production of Siniterard in bouncelors with maintaining such New Mine or Mine Expansion, or say other costs, to be taken to concern depletion or depreciation charges or other indirect costs. any Subject Coal rathed from any New Wins or Mina Expansion prior to 12s oil A.M., local lime, on the first day of the
coloridar month next succeeding the calendar month in which the
regirtest amount of the Net Mine Sevents, plus depreciation,
attributable to Subject Coal produced from such New Mine or
Niue Expansion, as the case may be, thail equal the Recompable Cent. which shall, here been inserted by the Greates is
the stabiling such New Mine or Mine Expansion. In the event
that any Mine which is the emblect of a Mine Expansion is
also predouding or espaids of predening Subject Coal from Geall.
ties other than such Mine Expansion, Subject Coal shall be
deemed to be preduced from such Mine Expansion is
yest only affect, and to the extent that, the total quantity of
Subject Coal jurishized from such Mine is such year exceeds Subject to the provintens of paragraph (2) below, reduction Payment chall not be dischargeable out of . E

(3) Notwithstanding the provisions of paragraph (1) about it the conjudiciated beliance of the Princery Bann of the Con-Production Payment hald exceed on any three concentive an epochibe in the tabulation in Bection 1.1 the respective amount specified outplotts and these, the provisions of paragraph is always shall cease to apply, communing with Subject Coal mind from all New Mines and Mine Expansions on rank third co

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specified opports such data, wherespen the provisions of gaza-teruble (1) above shall again comments, subject, sederiver, to being viapoded again in the same manner as provided in this para-graph (2). submequent to such constition as of which the uniquidated balance of the Primary Sun shall be equal to or less than the amount secutive date, antil may date set forth above

and the second s

G. So long as and to the extent that the same may be required by applicable laws or regentiation, the Profuedion Payment Percentages applicable laws or regentiation, the Profuedion Payment Percentages applicable for any federal soal lease strend pursuant to a fadical soal proseposition presents in the Bubbles insteaded in the Bubbles insteaded the mixed many percentages which may be expressly detarmined by the Dapartment of the Interior to be inchessived in respect of entit heres under seals have or regulations.

Storman 13. deserver, Frem and Discharge of Gonzal Produc-tion Poyment. The Connol Production Payment shall continue and end realized, out of the Production Payment Co., the full stews received edu of the amounts referred to below in Subsections A. B. O and D of this Bection 1.1, as increased as in this Conveynment provided, free and share of all costs, charges and axpenses of overy kind whitnesses:

5 15/70% per ensure on the uniquidated balance of the 5 13/70%. Portion of the Primary Sun (computed in each case on the busin of the actual number of days in used year). 'B. The tem of (I) an amount computed from Septem 1966 at the rate of 6 6/201s, per samme on the unique balance of the 6 6/201s Fortine of the Primary Schu and amount computed from September 15, 1965 at the ...

(1) the first resh comparation to be made

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15, 1960, np to sad negacing Desember 5, 1960, of the amenot of said railiquidated betaness on Suptember 15, 1960, of the amenotical section to be made mostliby on the first day of said Associating Month for the preseding Associating Association Association

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documents rulated thereto, the obtaining of any leasts or the subof any notes secured thereby (Incidence any continuissis frees
payable is connection, therewith), the receipt land diobursement of mensors on secount of any such loans of notes and diobursement of mensors on secount of any such loans of notes and thecontent (through Higgalian or otherwise), rightess to discharge of
any adverse colour or faminal made by any persons discharge of
any names whetherers, this Council Production Payment or the
Production Payment Code, which shall have been paid or interred
by remaint equal to interest the rate of \$55 per sumen
from the date of payment; precided, hawders, that the aggregate
amount (exclusive of semounts or assigns), tiggether with an
arrive on account of all and explanes qual to interest) which all and
arrives to account of all and explanes or discharge of any mach
adverse of sing the contest, release or discharge of any mach
adverse of sing and exceeded the contest for the Consol
Production Payment aball not assessed this OOO, COO, end

\$200 per mostir which may be charged by an agent on behalf of therefore makes which may be charged by an agent on behalf of therefore making any mad loans or safe purchases, to defroy the internal accounting and booktrepting expenses of such agent in connection with the receipt and dibhursement by it of moneys on account of any such loans or notes;

or some trax measures measure that the Grander shall be entitled to receive and realize out of the Production Payment Goat the fall aggregate mm of the assemble above selected to is Bubboulous A and B of this Bestion, first and olser of all socie, wherever and arrows (other than those described and openfield in Subsections C and D of this Bestion, and over said above all baxes, scoring and expenses of the character and amount described and specified in Subsections O and D of the Saracter and amount described and specified in Subsections O and D of the Saracter and amount described and specified in Subsections O and D of the Saracter and amount described and specified in Subsections O

All tarse imposed or assessed with respect to or massured by or equarged against or stributable to the Production Pargent Goid and Cor which the Greator is University and bedemind from the proceeds of Preduction Paymest Oeal and paid for the account of the Greator and, is the case of any such defraction, the amount so festivated by desumed not to preceded of Preduction Paymest Goal resolved by essenting shall be resulted by the Greator.

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below, and canh proceeds shall be decemed to have been recorded and applied immediately after the opening of business on December 6, applied immediately the proceed of Subjent Coul actually resember 6, the Orrapic rafter the opening of business on the first day of each Accounting Month sup to the close of beamons on the first day of such Accounting Month shall be desemed to be presented at Producting Payment Coul in the arters featurable by the Grantor as provided below and arosh proceeds shall be desemed to have been createred and applied introducting Actor the opening of business es the first day of the natter accounting Month Month.

the Mouth). For all purposes barsel, presend of Profucine Payment in Mouth). For all purposes barsel, presend of Profucine Payment in Mouth). For all purposes barsel, presend of Profucine Payment Coul shall presend by hereived, by the frants whose purposed is thall have been received by it is collected fault, see the purpose of the present of the frants and (11) the region of the frants and (11) the present of the frants and (11) the frants of t The tark "Accorating Month" shall meen any period commending with and neduling the 3rd day of any calcudar month and onding on naxi enciceeding Accounting Month shall communes with and include the second of the next two consequiive dustness days following his End and including the and day of the next succeeding colondar month; provided however, that it either the and or the and day of any ediendar month chall be a Saturday, Sumley or legal holiday under the last New York, the Accounting Month nermally ending in each chit mouth aball end on and Include the first of the west two combet business days following the Sad day of such calendar month an

proceeds of Production Reyment Chall or a talegraphic adrionate the the Grantos able to the Grantos Galtered by the Granton to the Grantos and lapari. on my date of application epecified abort or Application Design') the Creater shall to 157 mg

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received an Application Report (or telegraphic summary thereof as aforceasid) covering proceeds of Production Payment Coal to be decayed received and applied on such Regular Application Date, all proceeds of Schleck Coal then in the possession of the Grantor and not covered by an existing Application Report shall be deemed received and applied on such date as proceeds of Production Payment Coal.

When such proceeds of Production Payment Coal have been so deemed to have been received and applied, any remaining proceeds of Subject Coal in the possession of the Grantor and specifically identified as such by an existing application Report shall be forthwith turned over by the Grantor to the Grantes.

Proceeds of Production Payment Coal shall be deemed to have been applied on each Regular Application Date as follows:

First, to the amounts referred to in the foregoing Subsection B of this Section scarned up to (but not insteading) studdate, and

Second, to the amount referred to in the foregoing Subsection C of this Section, to the extent then executioned, and

Third, to the amount referred to in the foregoing Subsection D of this Section, to the extent than ascertained, and

Fourth, the remainder shall be applied

- (i) 100% to the reduction of the miliquidated balance of the 3 8/20% Portion of the Primery Sum until the Equidation thereal; provided, however, that if the 5 8/20% Portion of the Primery Sum shall not have been completely lliquidated on or prior to March 15, 1976, thereafter such remainder shall be applied 50% to the reduction of the unliquidated halance of the 58/20% Portion of the Primery Sum and 50% to the reduction of the unliquidated halance of the 58/20% Portion of the Primery Sum, and 50% Portion of the Primery Sum, and 50% the af the 58/20% Portion of the Primery Sum, and
- (ii) after the liquidation of the 5 8/20% Portion of the Primary Sum, 100% to the reduction of the unliquidated balance of the 5 18/20% Portion of the Primary Sum;

provided, hoseour, that, in the event such proceeds so deemed applied on may much date shall be insufficient to cover the aggregate amount

the other, soodciling to the respective amounts sooreed and anarchined under said Clause Wirst in respect of each seals Dortien, and the uniquidated bilance of such used Portion shall be fortien; and the righted bilance of such used Admissory; and provides, further, that amounts increased secretary parament to Subsection B of this Section by reason of shot increased amounts ahall not be payable from Selziet Coal, produced in any state where applicable law precledes each

purposet.

When said full aggregate eum of the amounts referred to in the foregoing Subsections. At B. C. and D. of this Scholm is the Granden for in this debection. At B. C. and D. of this Scholm is the Granden in this development springled, shall have been restricted by the Granden provided, haugh the Consult by the Granden seafforms as aforement, the Consult Production Perposent shall in expensively, freshiefly serminate whomever if years best day thall have event, forther the death of the exerters of all the descendants of Theodore Boogerstl, the Franchisher who are living on the Effective Date. The Granden Septemblisher the are living on the Effective Date. The Granden Septemblisher who are living on the Effective Date. The Granden Septemblisher day well and upon receipt by it of substituting the sentence and of any resistant of proceeds from the substituting deciding Payment Coal as provided in Section 1.6, it shall excent and deliver, upon request and at the expenses of the Granden, send hartuners is any he modelmary or apprepriate to evidence the terminalities or discharge of the Granden Frederick or discharge of the Granden for the reminalities.

Success it. Marketing and Paking in Kind. The Grantee shall use dus different to expand the markets for Shalpest Coal and, in modification to expand the markets for Shalpest Coal and in modification of the same shall be shall be

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purpose userus provincia, neuescui, tant notable gondanged abenin shall present the Grantes, in good faith, from changing in agreeing to change sup y proreition of any mah Production Bales Courteast at any time or time, The Production Pargard Courteast at any time or from time to time. The Production Pargard Courteast as mined, that is presented to the surgest and originated with the Grantes, free and diez of all coult, charges and expense, at each point of purchase on its reasonably required in the marketing theority provided, houseser, that any presents from the and expense the point of purchase on its reasonably required in the marketing theority provided, houseser, that any presents from the and expension that the point of the prights of the Grantes. The Grantes in the market the Production Bales for the change of the Grantes and market to the Preduction Bales (Courtest or on punctionation or any production Gales then the best prices obtained and the dispersance when preduct to any market is the above of the Grantes Coal, but mayer for less than the best prices obtained by the Subject Coal, but mayer for less than the best prices obtained prices reseivable thereunds. The offense of or the correction of the formation was a class personate Production Personal Coal, or the coal trade of the prices obtained the prices of the prices of the Grantes for the contraction Personal Coal, or to contracts, at the contracts, production Personal Coal, or to sitt Production Payment Code to its Affiliate, only as prices which also not less than the best prices obtainable under the circumstances from this pursons who are not for Milliates (which abiall be not less than the prices which the Grantee of argues scale third payments for slaise of the quantities of Stabjest Goal of like gracks and quality under the same or similar ecoditions from the same Mine or cleaning plast). If the Grantee shall now Production Payment Coal for any purpose observe than as parvited as Subsection 2 of Stecton 12, it shall be demand to have purchased the Production Payment Coal for used. In the event that the Grantee that purchase any Production it stall pay to the Granter on ar before the fast day . Pigment Coal is purchased, the purch thereon deducted and paid for the same Section 1.3,

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From that to luns, spon the giving of at least 50 days' prior poidse in writing in the Granies, the Granics whall be said that at its ujectom to take in kind the Keitlan Production Payment Powentings of the Subber Cost, mined from part or all of one or more Keidsen Interpret, and subpect to the eights of purchasers under supper moriting Production Sales Convisots; provided hoseour, that each work oncient in greatly each Enlysic Laterate or portion thereof from which send Initial Production Preparent Powentings of Subbect Cost severed by such relies are to be taken, each Mins or provisits plent at which run initial Production Preparent Reventings of Subbect Cost severed by such relies are to be taken, each Mins or provesting plent at which rund it is the date of the commencement of reach taking (which hall be the farm they of a citienter wourth), said each taking shall had for the period specified in such notice. The Granico shall meteric such when marking or, it is more that a citient and the action shall meteric such consol Production Payment Cost is an electron shall meteric such some provision of Section Payment Cost and provision the provention Payment Cost is the such such that sense and the behavior of the provention Payment Cost is an electron in Review of the provention Payment Cost is the Production Payment Cost is the prosent of the present of the present of the behavior provention from the preventions of the Subject Cost so taken to know the before the present of the present of the present at the Unique per payment of Payment Cost is the present at this to provide the present of provided in prouptify after the credit of the present at the Unique payment of Payment Cost is the Present and the Subject Cost is taken to know the beginning by the Granic series in the same manner and the Cosmai presence of the Babject Cost is taken to know the beginning by the Granic series in the state manner and the Cosmai presence of the behavior and the Cosmai presence of the Babject Cost is the presence attributed by

Secreto 1.5. iPhthkolding and Restitution of Presseds of Priduclion Payment Cole. It any of the presseds from the also of the Production Proment Cost shall be withheld for any reason whatsofren. the Grantor shall not be deemed to have resolved or realized any proneed from and Production Prymond Cole with, and time sity to be cretent that, the proceeds from the sale thread have been received and applied to the Consol Production Payment. If all any time whatsofver, sither before at after the receipt of the full aggregate sum of the (1) He lot IN W. 157 m. 75

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County Production Payment specified in Section 13, the Greater shall be compelled for any resson to make any payment or restitution, or such payment or restitution shall be made for the Grantor's account, on account of proceeds of any Production Payment Coal theretofore m account of process of any process half be deemed to have been received nost rescally applied parament to Sketion 1.3) than the respective unliquidated belances of the 5 5/20% Portion of the Primary Sum and the 5 13/20% Pertion of the Primary Sum shall, to the extent; of many that either such Portion shall be affected by much payment or resilitation, be increased, effective as of the date on which the payment or restitution shall be made, by the respective amounts of the proceeds so paid over by ur on behalf of the Grantor (plus all amounts which the Granter shall be compelled to pay in the nature of interest, damages and penalties) in respect of the affected portions.

ARTICLE SECOND

Растроини то Румскания су Распросием

Sacrow 2.1. Payment to Grantor. In the absence of any written notice to the contrary from both the Grantos, and the Grantee and until the discharge or termination of the Consol Production Payment, any person purchasing or taking any Subject Coal is authorized and directed to result directly to the Grantor the proceeds of the sale or other disposition of the Initial Production Payment Por-contages of the Subject Coel and shall have no liability to the Grantee for any such proceeds so remitted. Subject to the provisions of this Conveyance, the Grantor shall remit promptly to the Grantoe any excess of the proceeds of the Initial Production Payment Percentages of the Subject Coal over the proceeds of the Production Payment Coal and, to the extent the proceeds of the Production Payment Coal shall aroued the Initial Production Payment Persontages of the Subject Coal, the Grantee shall result promptly to the Granter such

Snorwe 2.2. Notice. No parson purchasing or taking any Subject. Cost shall be required to take notice of, or keep informed as to, the discharge or termination of the Consol Production Payment until the setual receipt by such person of written notice from the Grantor advising such person of such discharge or termination.

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COVERABLE OF THE GRANTER

The Grantee havely covanate as follows:
Shorms 3.1. Good Folds. In secretaing all rights, and in performing all shilgarious, granted or imposed by this Conveyanon, the Grantee shill occreties the utmost good faith to the Granter and shall not discriminate against Production Payment Cost.

Secretor 3.1. Opportion of Stablest Intersets. He long as the Consol Production Payment shall remain in force and oftset (but subject to the provisions of Section 3.3), the Grantes shall at its own confact united and interspective of who may be the operator of the Stablest Instances, equas

A. the Subject interests to be maintained, and the Develoyed Subject Interest to be operated, improved and diligently mixed for the production of Cod, all in a good and workmanific mixeds and in accordance with (1) product con inline precise (including, but not by way of limitation, conduct of all appropriate ventilating and pumping operations and of sends precises as may be required for enrices and lateral emportand the reclimation of surface stead), (2) all applicable federal, and other information and regulations (areasy those which are being contracted on any provident Study and the such Mine new or harvardar location on any Provident Studyed Induces that it capacity and the svallable markets for each Coal;

B. to be carried out (without in any manuer limiting the multiers contained in the Contgoing Subsection A) the devision ment program emicentalstad in Appendix I to the Welr Beport subject, Accesses, to any datagn mensatisated by force marjeura;

6. all to be dees that, associang to grannily assipting practices of prindest spacefors in the industry, may be appropriate to maintain has present from finishing the quentity Subject Coul recoverable from the Stablect Coul recoverable from the Stablect Learness and from such Mine located therem;

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assessments and governmental charges imposed on the Grantes or any of its payerities, to be paid pomointally when due, or, as to any thereof which are bang contested in good faith, promptly offer the determination of such market. D. all liabilities of any kind or maters lookined with respect to or related to the Subject Interests, incleding, without limits-tion, til inbilliuse for onet, charges and expenses, and for inclement of eight of chart, incurred in or article from the administration, operation or responsible of this Subject Interests or the mining or proceeding of Bubject Cool, as well as all taxes,

E. all rentals and all reyables to be paid promptly with respect to each Subject Interest which is a lassabold, and all other obligations on the part of the Grantes with respect to the Subject Interests, expressed in or implied under any lesses of expressed is or implied under any assignment or subject to the grantest of the purchashing perferenced, and each Subject Interest, and each right at way, seasoned or privilege necessary or appropriate to the operation of such such Schliest Interest, to be topi in full force and effect, free of cancellation, fortesions or any accurach right of termination, by the polyment of whatever sums may become payable and by the performance of whatever obligations may become performable

kind now or bereaths besiescy or nearful in connection with the maining or processing of Subject Coal, to be privrided and owned by the Greates free of all form, charges and enterminates scorpt those connected to by the Greatery, and to be kept in good and effective operating condition, and in wanter transwal, replace or mank, addition, and inpurvenent thereof or thereto needful to sain and to be proupely include, and subject the implication to be the first transwal, the extent that each property is of a decreated would be included to companion operating because and properties of the decreates and properties of like character. consent of the Grentor, to be placed under a sulf-insurence pro-gram of the Grantea); provided, hencewy, that, so long as no Remedial Event shall have occurred and be continuing sothing F. all machinery, equipment, buildings and facilities of any against all risks vensily insured against by such companies an

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herein thall present disposals in the ordinary course of besiness of with machinery, equipment, buildings sad facilities from time to time;

verse claim or demand made by any person which may have a material adverse effect upon the Embed. Likewist or the Embed Coal in the proceeds thereof, or of any present or the Embed Coal in the proceeding inclinate with respond thereof, and all messesser, that proper streps to be diligently taken at the serponse of the Grander is protect and defend his Embed interests and the Embed Coal and the proceeding thereof the coal inclinate, but not limited to, the employment or are of coansel for the proceedings or defense of lifigation and the outside the proceedings or defense of lifigation and the contient settliers release or discharge of any such alatin or demand. written notice to be given to the Grantor of every

B. all of walcome taxes (or taxes imposed in loss thereof) and all severences, while, correption, gatherine, sales and other taxes and assessments of any first whatsowers (other than taxes of or ansatzed by the grous resemple, factories or profits of the Grazior and other than furnishins taxes of the Grazior) implosed or maissed with respect to or mentared by or charged against or attributable to the Subject Informats or the Gonzol Production Perpendion and montigues of the Gonzol Production Perpendio to the spaint assorting or the mortigue, inference, to be translered and paid pumofally before the same become delinquent (or, as to any thereof which are being conducted in good faith, promptly after the final delemantication of sean central), (againer with may fairered and penalties peralte in oursection therewith.

I the properties, inteness and rights referred in in itse, its to be eleared, and kept free and alsor, of distentive of this, and tiens, the resumbrance

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(4) those being contented in good fuith but only during the pendater of resh contest, not (5) these consented to in writing by the Uranter.

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Notwithstanding any covenant of the Grantee in this Bestion 3.2 to the content, the Grantee, with respect to those Blobbel Laterests solids are operated by operators ofter than the Grantee, shall not be obligated to perform undertakings performable by soals operators and which are beyond his sentired of the Grantee; previded, Accesser; that the Grantee will promptly take all enoit, action legally evaluate to only controve are never the performance of any sole indicatalings by

Express 23, Sales and Leases of Subject Interests and Shat-Desse of Macat. So long to the Crosel Production Paymoit shall remain in forces and elected the Gennies shall not, without the sonsent of the Granker, sell or lease any Subject Interest (or portion thereof) or that down any Man, except as set forth below.

A. So long as the unliquidated balance of the Primary Sum as of the close of Turiness on or gridur to any data specified in the tabulates. In Section 1.3 shall be equal to or less than the amount specified upposite scale facts, the Grandes, without most convent, may well or lease:

(1) free of the Consel Production Payment, Subject Interests (or portions thereof) containing not more than \$000,000 tons of numbered Subject Const to each purchases or lessee in a tong or number year in the ordinary powers of bestsees of the Grantes, and

(2) Bullyon Interests (or purious thereic) contribute not more than 25,000,000 tons of unmined Subject Coal to sech independent prochases or jusces in a tingle sheindar year is the evidency corne of beninses of the Granties if the sels consideration receivable by the Grantice for such side or lesse is a relating requiry interest which confirms as a Subject Interest which confirms as a Subject Interest.

As used in Budsettians A and B of this Section & the world "pur-abaser" or "listees" shall be deemed to include all Affilities of a purchaser or house.

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B. So long as the unlightedesed balence of the Primary Sum as of the slone of business on any data speedled in the infulpries in Section 1.1 shall be greater than the amount speedled opposits each data; the Grahus, without swell connect, may sail or lease;

(1) free of the Ganes Production Payment, Subject Interming or portions flavred; containing not more than 800,000 thus of numbed Subject Goal to such jurchseer or lessee in A shigh calcular year in the ordinary course of business of the Orantes, and

(2) Subject Laterwets (or portions thansel) sentatining not more than 10,000,000 tons of wamined Subject Coal to such independent purchaser at lease in a fifty initiated report the confinence of the formula of the Greates it the sole coals suderally meedrable by the Granies for each subject than receivable by the Granies for each subject to receivable the theory of the Granies for each subject the retained or the coals subject to the coals of the coals of

G. Furnhasars and leasees of Shiptest Interests (or portlong Garred), containing numbed Shiptest Ocal soil or based by the furnish pirmans and the Shiptest Ocal soil or that Shiptest Chair and the Shiptest Ocal soil or the Shiptest Chair and the Shiptest Chair and the Shiptest Ocal soil or the Shiptest Chair and the Shiptest Ocal soil or the Shiptest Ocal Shiptest Ocal soil or the Shiptest Ocal Shiptest Ocal soil or the Shiptest Shiptest Ocal Shiptest

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to he o violation of this Section 3.2 and prévides, further, that in no calerofor year shall the Orastee be shilling to aggragate the respective amonts set forth in clauses (1) or in clauses (3) of sad Subsections A and B. section A nhall have taken place and, later is the same ould year the provisions of Subsection B shall be significatio, the sale or lease priviously to said Subsection A shall not be de

to abjunden, sail or jease, free of the Cruzial Production Perment, Chuloch Intervente for portions through Indulug spriftenintervent and or jease, free of the Cruzial Production Perment, Chuloch many overtie Studyest Chaif, Indululug spriftendates of devarrabation to restorate Studyest Chaif, Sprinden on the
dates the Grantes shall have reasonably determined that mech
Shipial Inderests for portions thereofy will not be employe or
neithly at connocitor with the Innings or privacealing of,
Subject Chaif, Furtheners and leases of Studyest Intervent to
portions through sold or leased by the Grantes, purvient to
the through sold or leased by the Grantes, purvient to
the Subsection D thail be fully protected in regime upon a
representation by the Grantee these are leases are
permitted by this Subsection D; prooffed, housever, that the
Grantes shall not really-easy of fire liability to the Grantes for
damages or other appropriate remedies as a result of siny breach
of the previsions of this Subsection D. D. The Orantee shall have the right, without ench consent,

nerses inlaing Coal from such Undershoped Butjest Internst (or portion thereof) and the Grantes shall have transmitty determined that it would not be somorph to commons such The Grantee shall have the right, without such consent, to abandon any Underaloped Subject Interest (or portion ther of) which is a leasshold interest if the lesse confing could developed Subject Interest (or portion threef) shall request a scondition to the deminer's returnion of much fillndered Subject Interest (or portion thereof), that the Gressian

F. The drantee shall have the right, sent to shut down permanently any Mind is veloped Bukjest Interest (or portion thereof)

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G. The Gruntes shall have the right, without such counsest to that! down temperarily say, Alice located on any Developes Sulfest Interest (or portion thereof) dering he continuesses any of the following conditions:

(i) so long as the unliquidated balance of the Frizziery Sum as of the close of business on or prior to any date specified in the tabulation in Section 1.1 abuil to equal to in less than the unnext specified opposite such date,

(‡) so long as the production of Subject Coal from other Mines shall be insteared by the approximate smooth of the founcies which absent each chunders, would have been produced from the Mine semporarily and down, well as the produced from the Mine semporarily and down, (§) so long as a condition of a temporary nature shall exist between the monthly Grow Income from the sale of

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Coal would, but for such interference, by produced from such Developed Subject Interest and the quantity of Coal to be mired therefrom. If the Grantes shall be untable by the screence of all assessment to response the desired Developed Subject Interest, then the Grantes shall complete such New Mines and/or Mine and/or Mine and/or the article of soah interference upon the affected Developed Subject Interest and the quantity, quality and value of the Coal to be mined therefrom. In disableting size which as affected Developed Subject Interest and the quantity, quality and value of the Coal to be mined therefrom. In disableting it is colligations under this Scheims & to complete New Mines and/or Mine schoim Mine soad or Mine Expandum, the forther with the smithed to orell special or Mary Scheims and/or Mine soad or Mine Mines and/or Mine Scheims (whether or not complete Mary Mines and/or Mine Scheims (whether or not complete Subject Coal which may be predisted after the date of man instructors or supported Subject Literate Mary Mines or Mine Translet or and translet or a three the date of anny interference is Developed Subject Interests and for Mine Evelope or and province of Subject Interests and statements. It may live Mine or Mine Proposition of this Section 2. Subject of the recomment of the Subject Coal Interest and Mine Translet or the Subject Coal Interest Section 1. Stall not stapply to that province of the Subject Coal Interest Section 1. Stall not stapply to that portion of the Subject Coal Interest Section 2. Subject Mines of the Subject Coal Interest Section 2. Subject Mines of the Subject Coal Interest Section 2. Subject Mines of the Section 1. Subject Section 1. Sub

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or only of the dolor with resultation and report by an independent segment of its dolor with respect to the effect of such interference and the adequacy of any solion proposed or taken by the Grantes to everooms the effect of such interference.

Exertor 2.5. Reports to Granter. So long as the Grand Produc-tion Payment shall remain in form and affect, the Grandes will at its own expanse furblish to the Granter, in such rumber of confits parts as the Granter may researchly request, the following:

A. Within 90 days atter the slote of seals fined year of the Grentes, a report prepared by or for the Grantes and in form and soops suttlementy to the Grantes and soops suttlementy to the Grantes and soops suttlementy to the Grantes and soops suttlementy of the Grantes and the Grantes and grantity of Shipied Coal recoverable from the Understoped Endyser Statesta, (8) the projected date upon which the Consol Producting Farment will be discharged, (4) the sations takes show the Effective Dale in sampliaces or attempted compilance with Subsection 3 of Shotten S.g. (5) the amount of any Recompails Clots previously rejected in an officer's certificate which retainin only survivally rejected in an officer's certificate which retainin only survivally rejected in any year, as well as the Grantes's celture of the date on which such amount is rangest of any New Mine will have been drifty fromyged by in and (8) the Grantes's restracts of the Grantes in which such report is dated.

B. Upon request of the Granton, but met more than ones in any calcular most, with most information and respect as are necessary to complete the forms, extraments, whitelion reports and other papers required by, and to meet the requirements and satisfy the requests of, the Committee on Valuation of Securi-ties of the Valuata Association of turnscape commissioners, or any governmental authorities having regulatory functions affecting beats, insurance compenies or majoral stude.

C. Within 30 days after the end of sach quarter-annual pariod (based upon the facel year of the Drantwo), a report Orantee), a repor abowing for such quarter-countal period with his existing division of the Grantes, the Grees Infor Subject Cost produced during each quarter, to

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quantities of Subject Coal from which such Orons Income was derived, the tures deducted Pyment Coal experienced for the Grand of which Grand Formers in the proceeds of Production Pyment Coal receivable by the Grandson call of Subment Coal receivable by the Grandson of Pyment Coal receivable with the Grandson of the form and Oron derived By Derived By

D. Within 30 days after the end of each calcular month, but only after results of a written request (which may cover any one serimore months) stating that constructed in the operation of the recipient to the acteal provided in the last seatence of this Section 2.6, a report showing district the acteal provided in the last seatence of this Section 2.6, a report showing such respect to last seatence of this Section 2.6, a report showing with respect to seate Developed Subject fortunation of Subject Coal produced partial states that the Subject Coal produced partial seates to the states of the distriction in the Coal supersease stiributable by or charged against or attributable to the Consel Production Payment of the Produced represent Coal, the presents of Exchanged Payment of the Produced regarder and the Coal, the presents of Exchanged Subject Interest, the Net Mine Hawman sithings the Ineventual.

E. On or balons March 31 in each year, a report showing in reasonable fatell with respont to such then existing direction of the Grandes file suche and leaves of Stubbet Interests astered into by the Grandes during the preceding collector year in secordance with the proviolens of Stution 3.3. Co an 161 m. .m. 157 mg 87

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F. Within 90 days after the close of each front year of the director, a carifficate from the independent public amountants. On the director this the destroy fraction the carroin seed scooner relating to the effects that there have been against a large that have been key in assortance with generally decopied assorting the practice and that the Grantes's competitions of proceeds of projection of proceeds of the practice and that the deratter is only the Grantes' for most fiscal year are accordant and in assortance with the previsions of this Courseyance.

Any information obtained or excerpts made in accordance with the prevision of this Section 3.6 or Beetinn 3.6 below/which would not be available to the profile through reports and by the Granbes or Continental to its trackholders or reports Ared by the Granbes or Ore thought will governmental commissions, departments or agendae and finally will governmental commissions, departments or agendae and Granbes, the mortgages or transfess among in any modification we of the Granbe, the mortgages or transfess among in any modification of the forests covering all or any part of the Granb Profusions secured by much mortgages or dead of trust in their respective separative or dead nearly mortgages or dead of trust in their respective separative as such a subject, to ensure the original profusion of any publications secured by much mortgages or the origination of any respective separative such a such objects or prespective holders or prespective holders.

Sacrior 3.6. Access to Stablest Interest. The Grantss will permit any one or more representatives designated by the Grantss at any reasonable time (1) to make evol inspection of the Subject Interests and the Assigned Approximated as not representatives shall derm proper and (2) to examine, and it and nake creepist from all books and resents of the Grantse emporating the Babyest Interests, the operation and development thereof, and the inching of God therefrom.

ARTICLE FOURTH

REALISTS

The Grantes hateby covenants as follows:

Berrur 41. Remedies of Grantor. Should the Grantes fall promptly to perform or clearts any of the covenants, agraements or undertainings provided in this Conveyance to be performed as abserved.

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purchasensory of property not be paid at maturity, whether by accelerate proceedings of property not be paid at maturity, whether by accelerate the not other view, or abound Confinential at any time scans to war 100% of such aloas of the issued and outstanding captual scots of the Grazeles, or should label the the confinential become insulered or make is a maintainment for the benefit of treatless or be adjudicated a bankrupi or admit be written for the benefit of treatless of benefit and other scots of the special and the same become as, of should say proceeding be insultriated by the Grazeles Confinential or self-of district or for the proposition of a reselver, treatless or figuritated by the Grazeles or Confinential or the Grazeles or Societantial or of the Grazeles or Confinential or of or supplication of the Grazeles or Societantial or or the Grazeles or Grazeless or Societantial or some special or supplication of the Grazeles or Grazeless or Societation or the Grazeless or Societation in the supplication of the Grazeless or Confinential as a tensivent and or a part of the Grazeless or disposition or of the Societation or the Grazeless or of the Societation in the supplication of the Grazeless or or the Societation or the contraction of the Grazeless or the order of the Grazeless or the treatless or the treatless to a grazele were the formation of the Society of the all other remodeless available is at her or the equity, in addition by the Grantes and mach failure remais unremailed for more than 30 days after written demand for performance or observance is made of the Austrie by the Grantes by the Grantes for or plants are obligation of the Grantes or of Continents Oil Company, a Dalaware corporation (herein called "Continentality), for the payment of borrowed money or the defauted

shall thereupon and thereafter have the ornitor A shall thereupon and thereupon are diffit, privilege and option (but shall be ender no duty)

(1) to effect performance or electrones, an behalf and the expense of the Grutte, of such errmanits, agricancity multiplings as have not been performed to observed by ill Ogenties, in which event the Grantor may advance funds as inong and pay bills for expenses for such purpose, and/or

march, governmental charges, liabilicies, re ether amounts which the Greates has agree of the providens of this Occression and dellaquest, (2) to pay any of the costs, expe

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date of such advenment or payment, and sury purchaser of rook
Subject Coal is subviried, and directed to remait directly to the
Granton all sements payable by such purchaser foot the Subject
Coal attributable to the Granton's pieceset therein to the surface
of the amount which the Granton's pails overlight to such purchaser
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pur interves as a screenable are not purch from the Oracton's to
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resumbrines the Granton beardor upon demand, and and may, in either case, at the spikin of the Granifor, be reither bluesid out of the proceeds of the Bridget Goal articularials to blue Granitee's interest therein, together with interest on the auroimberies amount at the rate of 6% per auroim from the

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B. upon written solies to the Greates by the Greates, shall encoused to all rights of the Greates with respect to the possession, operation, siming, expension, siming, soliter to the Subject Interest had by it (tashculta, shinkulta, all rights of the properties and cribs to a similar observable, and may other properties and rights of a similar observable of the Subject Interests from held by the Grantes and reseasary or safeth in connection with the administration, operation, calculate the safeth no connection with the administration, operation, calculate the insight, and and a similar descriptions of the standard states of the Subject Interests or the naines, heading, gathering, transling, presenting, gathering, transling, presenting, gathering, transling, presenting, gathering, transling, presenting, and the Granter shall have the drantes of the Babback and for the account of the Grante, to still and million all the Subsections. ing, handlug, guilering, tracitug, proceeding, etoring, cheting or transporting of the Subject Closi and its reimburse dranter for any amounts arporated by the Granter in pay-it of such cents and expenses, and, to the extent little and runts are not paid out of the Grantes is inberigit in the proand to apply the presents thereof to this coats sand expanses (including enemest from) of the administration, operation, raining, development and exploration of the fibblest injerests or the

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needs of such Subject Coal, the Grantse shall reimburse the Grantor upon damand for all such amounts so expended, together with interest on the unreimbursed amounts at the rate of 6% per sanuta from the date of such expenditure, and

G. shall be entitled to specific performance or observance of such covenants, agreements or undertakings or to apply to a court of equity in aid of the execution of any power herein granted and for the appointment of a receiver of the interests in the Subject Interests held by the Grantse, the Subject Coal attributable to such interests and the Assigned Appartenances.

All rights and remedies to which the Grantor shall have become untitled under this Section 4.1 shall terminate either (1) when the Cossol Production Payment's discharged or terminate and all amounts then due and payable to the Grantor parsuant to this Section 4.1 isolading amounts payable for interest as aforestid, shall have been duly paid in full, or (ii) at such surfairer date when no Remedial Event shell be continuing and all such amounts shall have been duly paid in full, without prejudies, however, to the axarciae af any rights and remedial herch conferred upon the Grantor in the swent of any subsequent fallers of the Granter in otherway any of the averaged at the Grantor in the swent of any subsequent agreements or undertakings provided in this Conveyance to be performed or observed by the Granton to observe any of the averages, agreements or other appropriate remedies as a result of any breach of the covenants, agreements and chilgations of the Granton contained in this Conveyance.

ARTICLE PIPTE

WARRANTY OF TEXA

SECTION 5.1. Warranty of Title. The Grantor warrants that, immediately prior to the dalivery of this Conveyance, the Grantor had good and marketable title, free and clear of liens, charges and excumprances, to all the properties, interests and rights shown as owned, leased or otherwise held by the Grantor on those seriain maps set forth in Appendix III to the Weir Report, which maps have been marked for identification by the Grantor, the Grantee, the Production Psyment Grantee and Paul Weir Company, Incorporated, except (1) taxes con-

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to interfere materially with the operation, value or that of rich properties, the control of rich properties, the control of rich properties, and the control of the contro conveyance in this Parl I is made with full substitution and subtrega-tion of the Grantes in and to all covenants and warranties havetnore given or rand by others in respect of such properties, indressis and gares of the Station Interests or the Assigned Appartenances or any part of any thereof. etituting a lien bat not yet due and payable, (3) daspats or irregulari-Assigned Appartemendes who the Grantse egelvet every person who seems in thinky detailing or to claim the sems or any part floresed. A brances which are not

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Escring &l. Sols, etc. of Subject Interests. Dixospt as parmitted by Section & A the Grantse hall not, without the consent is writing of the Grantse, while the Consol. Production Payment shall remark in force and effect, while the Consol. Production Payment shall remark force and effect, make any surrender, abandommah, velasios, sale, was versios, anderest, lease or applicate, in whole or in part, of any of the Subject Literacia.

Enerrow 6.2. Bala of Cousel Production Poyment. Nothing have-to contained shall in any way limit or reactint the right of the Granter to acil, correct, market, marigage or pladge the Opness Production Pry-ment, is whole or in part.

BECTION 6.2. Rights of Morifooses or Treasles. If the Granter that is now time extends a marifact's or deed of trust correcting all or any part of the Canael Production Payment as security for any obligation, the mortgageon, (to trustees or the neathy, the holders of the obligations secured thereby, a

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Experiment 7.1. Notions. Any holies, request, demand, report or other instrument which may be required or paramitted to be given to experiment or paramitted to be given to may party harste or other person succeeding to may interest of a party harste abull be deemed ordinately given if in writing and delivered to make party or proposed or to as an office of make party or person or to a soluted in the United Shain and in a sealed servelope, first class small with preliting propality addressed to make party of person at its or the address; stated is this Conveyance, or at each other address as the party of person to be addressed abuil here designated by written notice to seach jests party or person.

Bucknow 12. Further Attersence. So long as authorized by applicable law so to do, the Greater and the Greates will ensemble and shirter all such other decal, correyances, instruments, notices, presence, sequitificies and documents, and will do all such other acts such things, as may be necessary more fully to assence to each other parky or tea recessary or seeigns all of the respective rights, titles, increasing and in the respective rights, titles, increasing security as many laster, remarks and privilities herein and harring graited, burgained, suck ourseyed, saffmed, transferred, so tower and delivered, or ever and delivered, or over and delivered or excepted, reserved and relatined, or intended so to be.

Surprove 13. Coristic Separate Analgements. It is understood and agreed that wills respect to Coal, mineral, mining or other leases while, per intersent is which, are included in the Sub-jeat Diverties, from the United States of America or from one or unore exhest on aquale thereof, or from leads are appropriate or marie allotted to Indians is severably sparate applicantly in apprecased forms may be excepted by the Grunte to the Grantes, its spiralest statement of the fill applicable statement and regulatory requirements, and that and sufficient form the United States of America not spoulded to make a sea of leases or leases of leases or interests therefore from the United States of America not spoulded by containing all of the surreptions, arothering as being the considerable production, retaining as set of the surreptions, and performs and perfoliages set forth thereties which constitute the Comment surrection are an analyses.

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and purposes as though the same were set forth at length in each such assignment. The interests currently by such appears assignments are the same as, and not in addition to, the interests derent conveyed.

Sacraw f. A. Feliurs of Tille, etc. No transfers by the Grantee of any part of the Entheor Interacts and we failure of tills to or standardment of any part of the Entheor Interacts and man the case of section 11 as the section of production Payment Personates are stored to in Section 11 as the Entheor Interacts as prostitited after said transfer, failure of this section and prostitited after said transfer, failure of this was handermant, or of reducing the amount of the Craul Production Payment or of creating any office or rebert privides to the Crauck Production Payment or of creating any office or either Entheory Interacts and any office or their Entheory Interacts.

SEUTION IA. Superators and Attofena. All the scrematic, warratties and agreements of the Grands and the Grants restricted that is.

Per I fleat the deemed to be sovenessed restring with the land. All of the
provisions of the Part I shall lieure to the branch plant, all of the
provisions of the Part I shall lieure to the branch plant and the binding open
the respective rescenesses and sales (including, without limitation,
the Production Paramet Grantses) of the Grantse shall include
that respective rescenesses and salegar (including, without includen,
the Production Paramet Grantses), around the first with the time. "Grantse"
as used in Sacian 1.1 (to and sleading Scholection C thereoft, in
Sacious h., 7.3 and 12 Exhibit A shall not include the Production Payment Grantse referred to in Part II of this Coursymou
or sot successors and salegar of each Production Payment Grantse
and the sam "Grantse referred to the Production payment Grantse
and the sam "Grantse referred to any sourgess or assignes for security purposes of the Grantse repointed by such mortgages or assignes with
the consent of the Grantse.

BECTUA T.S. Assumption. The Grantes insuring any operating the burnes for the bundt of the Granter the performance and observance of all cormants and conditions under contracts, is well as all chilarities a mining by operation at two jumposed on the orbor of the Subject Instruction, emopt such as may only be performed or observed by the Grantes.

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Louisgener af Production Payment PART II

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CONTEXAMOR OF PROPRESSOR PAYABLE ABTICLE KIGHTH

north, it before the interaction as seasoffer, its Connel Crothetical Pay-north, it before the integrals, sell, convey seasoffer, transfer, set over and deliver unity the Production Faymeri Grantes all rights, titles, inter-ents, estates, remedies, powers and privilegate of the Production Pray-mest Oranjon in the Stohwel Intervent and in the Conics Pray-Payment algorited, reserved and relation as priviled in Part I of this valuable confideration paid by the Production Payment Grands receipt and sufficiency of which are borney achieved Grants are described and definition of the Effective Dids, grant, beinguin convery, askips, transfer, each cover and deliver wate the Production near Grants with the Studies and deliver wate the Production and Grants and the Production Bactton 8.1.

To Hary and no Hoto the Consol Production Reymont, together with said eights, tilles, interests, settles, venedles, powers and privi-leges, unto the Production Payment Grantes, its recessors and privi-forerer.

SECTION 82. Coverents and Werrestles of Production Payme Greator. The Production Payment Greator coverents and warrants.

4. the Production Payment Granter has the lagal and enthority to grant, bargely, sall, convey, analyn, tran-ses over and deliver the Consol Production Payment)

B. the entire Coused Production Payment is mediationabled and the Production Payment Granton has not received any portion (beyond or substitute themser:

G. the Production Payment Granter has not received any mixed of default or datumal default of any kind whiteness with respect to or affecting Shubjot Interests which, individually or in the eggregates, are of material importance in relating to the Subject Interests as a whole:

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upon or assessed against or measured by the predicting of Orel scarning or attributable to the Conel Producting of have been duly paid or provided for; Þ

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E. there are no mits or proceedings pending or, to the inverted of the Production Payment Greatur, threstead against or affecting the Production Payment Greatur, threstead of the Godyed Interest before any court or by or before any governmental commission, bursas or ageory, awapt as herefore specified in writing by the Production Payment Greates and Production Payment Greates and Production Payment Greates and Things of the Words of the Commission, bursas or other regulators and rulings of the years, governmental commission, bursas or other regulators and rulings of the west, garden, and acted also a feeders,

Sacron & B. Westrasty of Tills. The Production Payment Greastor waterints that, immediately poles to the delivery of this Conveyance,
the Production Paymed Granto had good and this Conveyance,
the Production Paymed Granto had good and this Conveyance,
and alart of lians, charges and segmalations, to the Conford Production
for the office of training to the dischargeship from the proporties,
altering a lies bot not yet due and paymed (2) defeats or treeplanties
of tills of lies, charges or escenariorances which are no such as to interrers marelally with the operation, value or are of each as to interrers marelally with the operation; value or are of each as to interrers marelally with the operation; value or are of each as to interrers and rights, or materially after this direct, (3) Production
has Conversed, and (4) decease or irregulatiles of this or liena,
derress or earninant means or marelally after the Production
Portuent Grantes, Estajost to itema (1) through (4) shown, the Production Eversation Grantes having brind leaft to written and forwere defeat and another Production Progress violence or is debategrated between the Chosel Prefeated in Payment
fights, against every porsess whomesevers it strilly claiming or to claim
with this and to all overnation and wateration by the Production Payment
Grantes in and to all overnation and waterations between
the any part there as and rights or the Subject interests, or say part
of any thereof.

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Exercion 8.4. Further desurences. So long as setherized by applicable have so to do, the Production Faynest Grantor will resolute and deliver the a Fronderich Symmest Grantor will resolute and deliver to the a Fronderich control of the production of the form of the solutions and defined and will do all such other sols and things, as may be becaused; more stilly to surery to the Production Payment Gaintle, its monescyr mode are such as the still of the tights, tiltude hierarch, sendered, sendered of privileged bevein and hereby granted, hereathed, controlled, our effect, sendered at timefacted, etc. residence of the

Section 8.5. Production Payment Creater Not Little Froduction. Payment Grantor shall not be personally liable for the groduction. Payment Grantor shall not be personally liable for the gircharge of the Consol Production Payment, and the Production Payment Grantee shall look exactatively to the Production Payment Cont. and the proceeds thereof, for the discharge of the Consol Production Payment.

Baorinn S.R. Assignability of Production Posymens by Production Preparent Greenies. Nothing herein contained shall in any way limit or restrict the light of the Production Payment Grantes to sail, convey, assign, novigage or pledge the Convol. Production Raymout, in whole or in part.

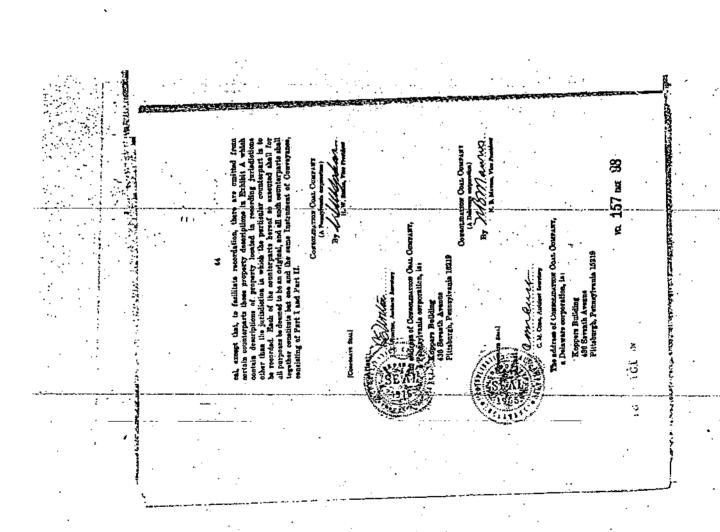
SECTION 87. SUCCESSION and Assigns. All the covenants, warrection and agreements of the Production Payment Grants contained in this Pair II abail he deemed to be covenants running with the land. All references haveln to the Fredockin Payment Grants or the Production Payment Grantse shall include their respective excesseds and assigns.

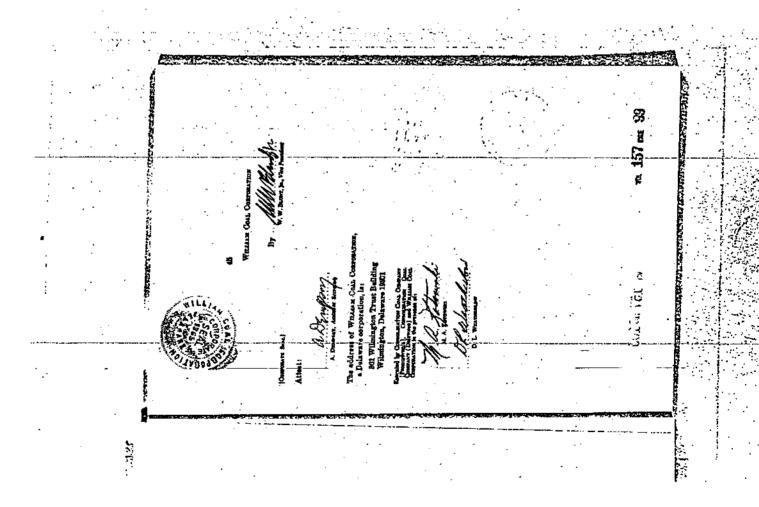
IF Witness Witness, the parties have been auted this featurement of Generation, consisting of Part I and Part II, to be dayly serviced on the adds specified in the abstract administ anneared heavies, in several countriparts (one of which with all the property descriptions hadded in Exhibit A is on the at the office of Conquillation Coal Company. A palement so expension, one of which with all said property descriptions is to be recorded in Moneymery Cornty, Illinois, one of which with all said property descriptions is to be recorded in Baison Cornty, Other, and of which with all said property descriptions is to be recorded an Garino County, New Troughest descriptions is to be recorded an Garino County, Preprint County, West and of which with all said property descriptions is no be resorted in Markon County, West which seed of which a confident and all of which are jetent.

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ment, appeared before me this day in parton, and acknowledged that he slighed the said instrument of writing as each officer of said corporation, and compounds and corporation in the said corporation in the safthetity given by the Beaut of Directors of said corporation, as his free and voluntary and and as the free and voluntary are and as the free and voluntary are of ends corporation, for the cases and perposes therein set for the the

Before pre personally appeared each of the above persons, to me known, when being by me duly evers essecting to law dis admossible that he is such offser of the corporation set opposite his mane, which experts the present of the foregoing instrument and I having first made frown to each, the contents thereof, each did exhrowledge that issue instrument is the not and deed of each originate the the purpose thereis expressed and is the set and deed of each offser thereof.

Before the on this data appeared each such person, ally known, such of whom, being by me duly sworn, did not that he is the designated offeer of the suspension are opposition in annu, and that the seaf-sufficient to the foregoing informment is the corporation and data taid corporation and data taid functioned was eighted and cealed to the foregoing informative and sead of the fact country for each of the fact o

On this date before me personally appeared such onch persons, known to me to be the designated officer of the corporation set opposite his name that is described in and that executed the within instrument, and estance adject to me that such corporation executed the same.

Defore we personally appeared each such parson known to me to be the designated officer of the corporation set out above after his salars, which corporation seconded the forestwing instrument, and each algorid measured the form and announcing to me that he did we sign such measurement in the seems and upon behalf of and corporation as such offers, and that the same inch offers, and that the same is the free act and deed of such offers and the free and

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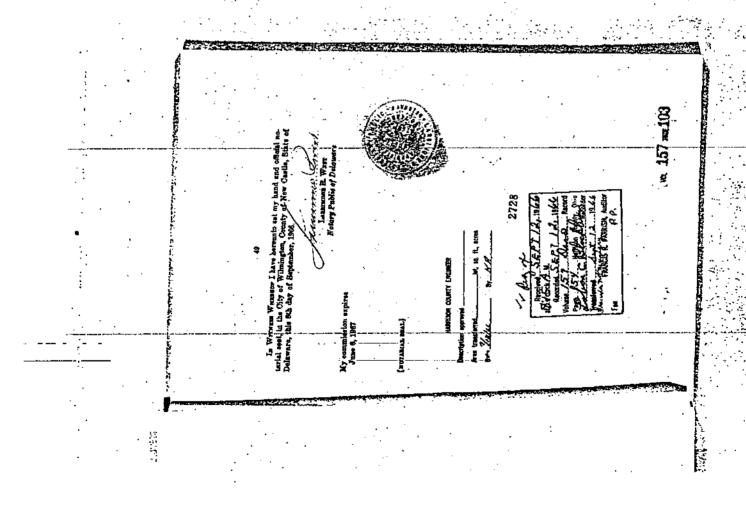
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On this day personally came before me seal, such person, the designated officers of the corporation set opposite his plane, such corporation being a party to the foregoing instrument, such capable being a party to the foregoing instrument, and each gature-jedged that the soully known to me to be such afficers, and each gature-jedged that the soil instrument is his own as each design and the sixt and design our poration; that the significant of the design of said our poration; that the significant of the organization and organization and in and organization is and finish as at of eaching and executing said lostyment was dury time, and the his his as of the Shreefore of the mild corporation. Each of the above persons, whose name as the designated offers of the corporation set opposits the name is signed to the foregoing writing dated as of September 15, 1966, has ecknowledged the sume before no in the County and State aforesaid. Plack such yearon who signed the writting above, dated as of September 14, 1966, for the corporation set opposite his aums, has this day is ny asid Genry before me achnowledged the said writting to be the set and deed of unid corporation. On this date personally appeared before me each anot purion, whe, bake by see doly everen, did any that he is the flatelynated offsers of the corporation see appeals his mann, and that taid instrument was signed in bahalf, of self corporation by an abharity of a resolution of its Board of Director, and each rold person administrated by we that seld corporation states and colorated the state. On this day, before me appeared each much person, to me personally known, each of when, being by me duly sword did say that he is the chaignated officer of the corporation set opposite his mans and that the last had be said matricement in the corporates is all of said corporation, and that said itself was signed and saided, he should be said each each and that the corporation.

The said is actionity of its Board of Directoric and each acknowledged said (strument to be the free not and dead of said corporation. corporate not and deed of sead corporation, and that he same was duly authorized by its Board of Ditectors, and that the seal affared to eald hardwares is the organice seal of said corporation. m 157 mc 102 41.21.14.4.14.1 į 345

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FROM COMPONENTION CALL CONTANT, A PERMITTANTE CONTINUENT TO COMPONENTION CALL CONTANT, A PERMITTANTE CONTINUENT TO COMPONENTIAN CONTANT A DILAMAR COMPONENTION, AND PART COMPANY, A PHYSTOLAUM, CONTINUENT POR COMPONENTION COLL A DILAMAR COMPONENTION, TO WILLIAM COLL CONTORUTION, TO AND POSSESS & PAST OF THE DISTRIBURE ATTACKED

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This Excitibit A contains the descriptions of these Subject Interests which are referred to in Rection 11 of this Occayance as being described or pictured to in Exhibit A Trum percentant defined in this Conveyance and not otherwise defined in this Exhibit a are used to the table and the same of the stable in which seeds Subject Interests are Devision one for each coff the stable in which seeds Subject Interests are Devision to for each county in which with Shiber Interests and West Virgitia. Each Division is farthr Transace, Utah, Virgins and West Virgitia. Each Division is farthr transace, Utah, Virgins and West Virgitia. See Division is farthr transace, Utah, Virgins and West Virgitia are located with the West Subject Interests of the same counties, in section affectivision affected theorem counties, provided to Division and form Subject in two counties.

The formats of, and degree of detail in, the descriptions countined herein may vary from Division to Division and from Subjecticion to Subdivision. Such variances have been adopted for the convenience of the purities and to countyly with local law and counties.

The formats of a result of tay even variances. Each Subdivision don their laws which the Virgins of Subject Interests are by reference to the Other Adentic there is a result of tay even variances. Each Subdivision counties in a protice settles for the county in which and instruments are presented to take the partities to submit may with the distinct of the supersymber of the submit of the same of the the submit in the same of the order of the county in which such instruments and the certain and to same and certain a well but were the manner of the purities to same and certain the sach and the order of the county in which and instruments and the certain and counties.

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pursuant to a Plan of Reorganization dated July 12, 1935—Cons. Coni Co. (Del.) merged into Pitt Coal Co. on November 23, 1945 and the name of the surviving corporation was changed to Pitt. Cons. Coal Co. 1

- 3. Pittsburgh Coal Company, a Pennsylvania corporation ("Pitt. Gool Co.");
- Pittoburgh Coul Company of Pennsylvania, a Pennsylvania corporation ("Pitt. Coal Co. of Pa.");
- 5. The Monongahela River Consolldated Coal & Coke Company, a Pennsylvania corporation ("The Monon, River Consol. Coal & Coke Company');
- 6. Pennsylvania Mining Company, a Pennsylvania corporation ("Pa. Mining Co.")
- 7. Christopher Coal Company, a West Virginia corporation:
- 8. The Pureglove Coal Mining Company, an Ohio corporation;
 - 9. Truex-Treer Coal Company, a Delaware corporation;
- 10. Truax-Truer Division of Consolidation Coal Company (a division of the Grantor and not a separate corporation);
 - 11. Bransford Mining Corporation, an Illinois corporation;
- 12. Universal Coal Washing Company, an Illinois corporation;
- 13. Posshentas Fuel Company, Division of Consolidation Coal Company (a division of the Grantor and not a separate corporation);
- 14. Northern Roserve Coal Co., a West Virginia corpo ration;
- 15. Southern Reserve Coal Co., a West Virginia corporation; and
 - 16. Ohio Reserve Coal Co., an Ohio corporation.

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It is the express intention and purpose of the parties hereto that . this Conveyance and Exhibit A shall be deemed to cover and include, in addition to the individual properties, interests and rights specifically described or referred to herein, all of the Grantor's right, title and interest in and to all Coal and Coal estates and all mining rights, privileges and humanities granted or acquired with or related to such estates, all fee, lessehold, mining, royalty, overriding royalty, production payment, net profit, riparian and other properties, interests and rights containing or pertaining to Coal, and all rights to use, damage or cause subsidence to the surface (whether orgaled by grant; waiver, release, estopped or otherwise), as well as all fees, lesseholds, ensemonts, servitudes, riparian rights and other interests in real property not reinted to Cost, which are owned, leased or otherwise held by the Grantor and are situated in the counties referred to in this Exhibit A, even though a description or reference to said properties or interests be omitted from this Exhibit A or such properties or interests be incorrectly described herein, and all of the properties and interests covered by this paragraph shall be properties and interests "described or referred to in Exhibit A" within the meaning of Bection 1.1 of this Conveyance; provided, housever, that there shall be excluded from the operation of this paragraph all of the properties, intereste and rights, situated in the counties set forth in the list below and specifically described by governmental survey, by meter and bounds and specifically described by governmental survey, by meter and bounds or by reference to instruments of title into the Grantor or a Predocessor in Annex A to that certain deed entitled "Non-Mining Deed", dated as of September 15, 1966 (the "Non-Mining Deed"), from Consolidation Coal Company, a Pennsylvania corporation, to Consolidation Coal Company, a Delaware corporation, counterparts of which are being filed for record immediately after the filing of this Conveyance in the following counties also included in this Exhibit A:

STATE OF ILLINOR

Hond County Fulion County Jackson County Montgomery County Perry County Randolph County

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Belmont County Carroll County Harrison County Jesterson County Muskingum County

Allegheny County Washington County Westmoreland County

COMMORWEALTH OF VINCIBLE

Buchanan County Texawell County

STATE OF WEST VINCINIA

Harrison County Marion County
Marshall County
McDowell County
McDongalla County

Where an instrument of title into the Granter or a Predecessor is described or referred to under a county in this Exhibit A and is also described or referred to in Annex A to the Non-Mining Deed under a county which is not included in this Exhibit A, the reference to such instrument in this Exhibit A is not intended to cover properties, intercells or rights located in the county listed in said Annex A but not included in this Exhibit A.

Any restrainment in the arcains descriptions contained in this Exhibit A.

cluded in this Exhibit A.

Any restrations in the specific descriptions contained in this Exhibit A that certain of the Subject Interests are subject to specific agreements or other instruments shall not operate to subject any such interest to any such agreement or other instrument except to the extent that such agreement or other instrument is presently substituting and is otherwise valid with respect to such interest; nor shall any reference to any such agreement be deemed to constitute a recognition.

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by the parties hereto that any such agreement or other instrument is valid except to the extent that such agreement or other instrument is presently in force and effect.

The Subject Interests are conveyed subject to the following:

- (1) All valid and presently subsisting easements or rights of way, either of record or apparent on the ground, including reads, reilroads; pipelines; power transmission, telephone, telephone, telephone, telephone, table and other transmission systems or rights of way; oil and gas leases; wells and reservation of rights to drill for oil, gas and water; and
- (2) All prior valid conveyances by the Grantor, or any Predocessor, to third persons of portions of the Subject Interests described or referred to in this Exhibit A, or of any rights, titles or interests therein, as well as all prior valid lesse agreements, support agreements and other chemphraness made or granted by the Grantor or any Prodecessor in favor of third persons, but only to the extent that any of the aforesaid shall have been duly recorded prior to the Effective Date or are specifically described or referred to in this Exhibit A.

Counterparts of this Coaveyance having annexed thereto all Divisions and Subdivisions of this Exhibit A contain a table of contents to such Divisions and Subdivisions. Such table has been omitted from the counterparts of this Conveyance containing less than all Subdivisions, which counterparts have been prepared to facilitate recordation as provided on pages 43 and 44 of the text of this Conveyance.

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| EXEIBIT A DETO | Supervision 5.04. Hammon's County, a Delaware of an indicate of the General Consistent Coal Company, a Delaware of the General Coals Company, a Delaware of the General Coals Coals of the General Coa | |
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|----------|------------|---|----------------------|-----------------------|--------------------|---------------------|-------------|----------|
| | | Constant | Greates | Date of Endoweniant | Vol. | <u>Prps</u> | Instrument. | _ |
| -ī. | Dem No. | | Pitt. Cons. Conl Co. | 7-29-48 | 119 | 6225 | Desd | |
| | a ' | Harvey T. Effect, et al. | Pitt. Cons. Coal Co. | 7-30-46 | - 119 | 561 | Deed | |
| | ٠ 4 | Steve Cárcolikor | Pitt. Cons. Coal Co. | 8- 1-48 | 119 | 596 | Deed | |
| | 5. | Floyd Reppert & Mary Lyle Resport | | | 119 | 597 | Deed | • |
| | Œ | E. K. Calvezhouse & S. Katherine Culverhouse | Pitt. Coux. Coal Co. | 8- 1-46 | | | | • |
| | 7. | Agues Tomestek & Peter Tomestek | Pitt Com. Coal Co. | 8-12- 40 - | 1.19 | 613 | Deed | |
| | 8. | Amy Agnes Henderson & G. Walter Honderson | Pitt Cons. Conl Co. | 8-12-45 | 119 | 614 | Deed | |
| | 0 | W. B. Criffith, et al. | Pitt. Cons. Conl Co. | 9-27-45 | 120 | 208 | Deed | |
| a | ю | New Fittsburgh Coal Company | Pitt. Cons. Coal Co. | 10-31-46 | 122 | 179 | Deed | |
| | X1. | Floyd H. Dickerson & Edna T. Dickerson | Pitt. Cons. Conl Co. | 11- 4-46 | 120 | . 206 | Deed | |
| C) | ES | John H. Mourbead | Part. Cons. Conf Co. | 11- 7-48 | 120 | 2.25 | Deed | |
| -J | | LB. Welch & | PRt. Cost. Coal Co. | 13-11-48 | 120 | 250 | Deed | • |
| 겉 | | Bertin V. Weish | | · | | | | |
| | | Leads Yabes & Minnio Yetes | PRt. Cons. Coal Co. | 11-13-45 | 120 | 253 | Deed | |
| ٠. | [4. | | Pitt. Cons. Cod Co. | 6- 6-16 | 120 | . 545 | Deed | |
| - | 15 | Hanna Lands Company | | 12-8-48 | 120 | 469 | Deed | <u> </u> |
| - | 16. | John King Mussio, Trustee | Pitt. Coss. Cosl Co. | | 120 | 486 | Deod | 5 |
| | 17. | J. A. Gardon & Hearietta C. Cardon | Pitt. Cons. Coal Co. | 1- 4-47 | | | | ļ |
| - | 18. | Mary Baker, et al. | Pitt, Cons. Coal Co. | . 1-31-47 | 120 | 587 | Dead | • |
| • | 18 | Dale I. Lude & Flarrist Lade | Pitt. Cons. Conl Co. | 9- 8-67 | 120 | 593 | Deed | ₹ . |
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| Minns M. Smilli & John W. Frit. Cont. Cool. Co. Senth. Adom M. Duning & Edith L. Fitt. Cont. Cool. Co. Duning. (Third Rein No. Introdumily. left blank.) Michael Galagher Little Galagher Little Galagher Little Galagher Little Complete & Sadis R. Fitt. Cont. Cool. Co. Complete Complete Little Complete & Sadis R. Fitt. Cont. Cool. Co. Complete Little Complete Research William M. Culbertson William M. Culbertson William M. Culbertson William M. Culbertson Recon. Cool. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co | Page I parteended | |
|--|-------------------|-----------------|
| Mithing M. Sweith & John W. Fift Comt. Cold Co. Sweith & John W. Fift Comt. Cold Co. July 1 Death M. Daniely & Edith L. Fift Comt. Cold Co. July 1 Cont. Cold Co. Life Michael Callagher Pitt Comt. Cold Co. Life Station E. Station E. Pitt. Comt. Cold Co. Life Station E. Callactron E. Sadion E. Pitt. Cont. Cold Co. Life Station E. Callactron E. Sadion F. Pitt. Cont. Cold Co. Life Station M. Callactron et al. Pitt. Cont. Cold Co. 4-2-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 4-2-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 4-2-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 4-2-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 4-19-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 6-4-47 Finity Juniely Callactron, et al. Pitt. Cont. Cold Co. 6-4-47 Finity Juniely Callactron. Pitt. Cold Co. 6-4-47 Finity Juniely Callactron. Pitt. | | 1 |
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| | Bent No. | Constor | Charles | Date of Instrument | Vol. | Page | Instrument | |
| <u> </u> | | Y He Bears of MY | Piet, Const. Cond Co. | 11-22-49 | 126 | 483 | Deed | ٠, |
| | 30 | Leslie Reppart, ot us. | Fitt. Come. Coal Co. | 11-28-49 | 126 | 47 2 | Deed | |
| _ | 94. | Mary Weszil | Pitt. Cons. Coal Co. | 11.29-49 | . 128 | 534 | Deed | |
| | 95. | Paul A. Varga, Jr., et al. The Goodyear Tite & Rubber | Pitt. Cons. Coal Co. | 12-22-49 | 196 | 596 | Deed | • |
| • | 96. | Company and The Wheeling Township Coal Mining Company | | • | | 923 | Deed | · · · · · · · · · · · · · · · · · · · |
| | 97. | Dorothy Somers Clark & George E. Froy | Pitt. Cots. Cosl Co. | 12- 8-19 | 142 | 599 | Deed | |
| | 98. | The Wheeling Township Coal Mining Company | Put. Cons. Coal Co. | 12-16-49 1-36-50 | 130 | 279 | Deed | . 🕶 |
| ă | 99. | The Whesting Township Coal Mining Company | Pitt Come Coni Co. | 12-29-49 | 198 | 549 | Deed | |
| | 100. | Loota Surgent & Kertoy Surgent, et al. | Pitt. Cour. Coal Co. | 12-29-49 | 128 | 550 | Dæd | |
| 157 | 101 | Kersey Surgent, Guardian of Clara Morgan | Pitt, Cons. Coal Co. | 13-23-40 | | | | |
| Ž. | 102. | Ferry Deblicola & Fredora | Pitt. Cons. Cost Co. | 12-29-49 | 1,25 | 555 | Deed | |
| <u> </u> | · - | DeNicols | Pitt Cons. Coal Co. | 2-1-50 | 128 | 24 | Deed | |
| -3 | 103. | D. M. Ryan & Hazel E. Ryan | Pitt. Cons. Cost Co. | 2-6-50 | 128 | 40 | Dood | 1 |
| | 104 | Herry J. Der | Pitt. Cons. Coal Co. | 2- 6-50 | 128 | 39 | Deed | 7 0 |
| | 105. 108. | Herry J. Res Herry J. Res | Pat. Cons. Coal Co. | 2 650 | 128 - | 42 | Deed | . |
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| 107. Earl Lamburn & Bensio Lamborn 108. Ceorge J. Strabdowicz & Mary Stanblowwicz & Mary Stanblowwicz & Mary Stanblowwicz & Mary Stanblowwicz & Sammel M. Moffredenick 110. Cora B. Straphen 111. Mary Campine 112. The Murano Coal Minths Company 113. Brune Ferrart & Join Siste 114. William I. Weinman & Mary 115. Michael S. Healy, et al. 116. Michael S. Healy, et al. 117. Michael S. Healy, et al. 118. Michael S. Healy, et al. 119. Charago, Chariman Characa Ch | Per Cons. Coal Co. Fert. Cons. Coal Co. | Date of Institutions 2-7-30 2-7-50 | 를 (독 | Pro | Emetivershirt | |
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| | Pitt Cons. Coal Co. | 8. 7. 4 8. 7. 4 | 髫 | | | |
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| | Pitt Cons. Coal Co. Pitt. Cons. Coal Co. Pitt. Cons. Coal Co. Pitt. Cons. Coal Co. | | 1 | 3 | | |
| | Pirt. Cons. Cosl Co. Pirt. Com. Cosl Co. Pirt. Com. Cosl Co. | <u>}</u> | 8 2 | 8 1 | Dead Dead | |
| , == (: : : : : : : : : : : : : : : : : : | Firt. Com. Coal Co. Firt. Com. Coal Co. | 3-10-50 | 881 | 6 1 | Deed | |
| | Pirt. Cont. Coal Co. | 7-19-50 | 821 | 55 57 | Deed | |
| | | 6.10-50 | S | 8 | Deser | |
| | Pet Cops Coal Co. | 8-17-30 | 2 | ₩, | Deed | • |
| | Pitt. Cons. Con! Co. | 8-23-50 | 81 | ä | | |
| | Pitt. Cort. Coal Co. | 9-1-50 | 183 | • | Dord | |
| | Pitt Cons. Coal Co. | 9-1-30 | 8 | • | Dead | |
| | Par Cons Coal Co. | 9.130 | 8 | = | Dood | Ħ |
| | Par Cons. Con Co. | 10 9:30 01 | 8 · · | # | | iarrham, Car |
| 110 H S Barricklow et al. | THE COST COST CO. | 11-1-50 | -18 | 127- | Deed | My, |
| | But, Cons. Corl Co. | 11.15.50 | 83 | 148 | Per s | (230). , Obio |
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| | | In No. | Cranter | : | Greates | Date of Instrumen | Vol. | Pege | Instrument | . 4 |
| 131 | | 121. | Leroy McFedden & Paulino McFedden | Pitt. | Cons. Coal Co. | 12- 6-50 | 159 | 191 | Deed | |
| - | | 129. | C. C. Simpson & Bessie B. Simpson | Piet. | Cons. Cosl Co. | 12-12-50 | 129 | 207 | Deed | • |
| Ź | | 123. | Bessie M. Laizure | Plet, | Cons. Cost Co. | 12-12-50 | 129 | 208 | Doed | |
| | | 194. | Herry C. Ropkins, & Margaret M. Hopkins | Pitt. | Come, Cost Co. | 1-24-51 | 129 | 286 | Deed | |
| ś | | 125. | Frank Signorelli & Xantha Signorelli | Pitt | Cares. Coal Co. | 1 -2 €5I | 129 | 283 | Deed | |
| 2 | | 128. | C. C. Fay & Agnes B. Fay | Pitt. | Cons. Cost Co. | 1-29-51 | 129 | 337 | Deed | |
| بد. | | | Excepting from the above Item N | la. 126 Tr | acts I, 2, 3 and the | e Let, End, 4th and | Stb Par | cels of Trac | t 5. | 늄 |
| 3 | : . | 127. | P. & O. Construction Company | Pitt. | Cons. Così Co. | 1- 4-52 | 130 | 512 | Deed | |
| | • | 128 | Helen A. Varga, et al. | Piet. | Cons. Cost Co. | 2-23-52 | 130 | 627 | Dead | |
| | <u>.</u> | 129. | N. E. Edwards & Beatrice Edwards | | Coas, Cast Co. | 5-17-52 | 131 | 224 | Deed | |
| Ĵ | | 120. | Charles C. Simpson & Bersio Simpson | | Cons. Coal Co. | 5-25-52 | 131 | 245 | Deed | |
| | | . 131. | George Bailog & Hose Ballog | Pitt. | Cons. Coal Co. | 11-27-51 | 100 | 438 | Deed | 퍞 |
| | | 132 | Vance & Eleanor Hines | PStL (| Cons. Cosl Ca. | 1- 4-52 | 130 | 510 | Doed | · 🖁 |
| - | | 133. | Garnet F. Howard & F. & O. Construction Company | Pitt. | Cons. Coal Co. | 1- 4-52 | 130 | 519 | Deed | ř |
| | 1 | 134L | Eleanor F. Milford | Pitt. | Const. Cost Co. | 9-21-51 | 120 | 247 | Deed | 3 |
| | 1 | 135. | Elenogr F. Milford | Pier (| Come. Cond. Co. | 10-30-51 | 130 | 385 | Deed | F |

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| 136 Para R. Mithord Para Const. | Figure E Milderd Lewis Vites A. C. & Elizabeth O. Henderson H. N. Benderson & Opal Henderson A. C. Henderson H. Cores. Corel Co. Henderson A. C. Henderson H. Cores. Corel Co. H. Cores. Corel Co. H. Cores. Corel Co. H. Cores. Corel Co. Rad & Lobe Mining Company H. Cores. Corel Co. H. A. Varge, et al. Coorges H. Duning & Gladys H. Duding H. Cores. Corel Co. Rad & McFadden, et al. Fit. Cores. Corel Co. Rad & McFadden, et al. Fit. Cores. Corel Co. Rad & McFadden, et al. Fit. Cores. Corel Co. Corellan of Edward MoFadden Fit. Cores. Corel Co. Radyb McFadden, et al. Fit. Cores. Corel Co. Corellan of Edward MoFadden Fit. Cores. Corel Co. Fit. Core. Corel Co. F | 150 001 150 0001 150 001 150 001 150 001 150 001 150 001 150 001 150 001 150 001 150 001 150 0001 150 | | | |
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| No. Senderson | R. G. Benchman, et al. Final Contains & Louis Contains Rad & Louis Rad & Louis Rad & Contains & Louis Rad & Louis Rad & Contains & Contains Rad & Contains & Cladys R. Pitt. Cont. Coal Co. Durang & Cladys R. Pitt. Cont. Coal Co. Durang & Cladys R. Fitt. Cont. Coal Co. Radph McFaclden, et al. Fitt. Cont. Coal Co. Radph McFaclden, et al. Fitt. Cont. Coal Co. Contained McFaclden, et al. Fitt. Cont. Coal Co. Contained of Edward McFaclden Pitt. Cont. Coal Co. Physica M. Johnston Fitt. Cont. Coal Co. Physica M. Johnston Fitt. Cont. Coal Co. Fitt. Cont. Coal Co. James H. Millard Fitt. Cont. Coal Co. Physica M. Johnston Fitt. Cont. Coal Co. Fitt. Cont. Coal Co. James H. Millard | | Ti C | | |
| A. G. Benderson, et al. Fig. Cont. Conl. Co. 1-95-51 120 62 Dend Frank Cockness & Louis Cockness & Cockness & Pit. Cons. Coal Co. 1-95-51 120 53 Dend Rad & Luke Mining Company Pit. Cons. Coal Co. 2-17-51 129 534 Dend R. A. Varge, et al. George H. Danisa & Glodys R. Pitt. Cons. Coal Co. 2-17-51 129 534 Dend Dunday & Glodys R. Pitt. Cons. Coal Co. 12-12-50 129 403 Dend Harold McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 514 Dend Kalph McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 514 Dend McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 514 Dend McFaddon Constituted McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 514 Dend McFaddon Constituted McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 511 Dend McFaddon Constituted McFaddon, et al. Fitt. Cons. Coal Co. 12-12-50 129 511 Dend McFaddon Pitt. Coas. Coal Co. 2-1-51 129 511 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 129 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 512 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 513 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 139 513 Dend Activate M. Johnston Pitt. Coas. Coal Co. 2-1-51 130 513 Dend Activate M. Johnsto | First Contains to Losis Frest Contains to Losis Contains Rail & Losis Mining Company Rail & Cont. Coal Co. Rail & Losis Mining Company R. Verge, & M. Control H. Danies & Gladys R. Pitt. Cont. Coal Co. Dunday Rayla McFacden, et al. Pitt. Cont. Coal Co. Contains McFacden McFacden Pitt. Cont. Coal Co. Pitt. | | Deed | | ٠ |
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| James H. Milford Pre. Cons. Good Co. 6-252 | James H. Millord Pre. Coos. Cool Co. | | Deed | 201 } Ohio | |
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| 텱 | Edgar Dodds & Holen Dodds | Pitt. Cons. Goal Co. | 7. 7.52 | ដ | 313 | Deed | |
| ğ | Frank R. McMillen | Pitt, Cont. Coal Co. | 8-13-52 | ij | 63 | D See | |
| 4 | Courge E. Henry | Fift. Cons. Coal Co. | 8-13-58 | Ħ | 4 | P | |
| Ħ | Charles H. Swan, et al. | Per Cons Coul Co. | 9-13-SE | ផ | 2 | 2 | |
| \$ | Teoff Milarcik & Jonnio Milarcik | Fift, Come, Coss Co. | 45-88-58 | īğ | 98 | Deed | |
| h | Call & Lentar, Inn. | Pitt. Come, Coal Co. | 1-19-54 | 138 | 83 | Dead | |
| 1 | John R. Dickerson & Marjorio L'Dickerson | Pitt. Cons. Conl Co. | 12.17-22 | 131 | 8 | Deed | , 12 |
| ñ | Archer Flewing | Pit. Cott. Cotl Co. | 12-23-53 | 8 | 8 | Deed | |
| 16 | John B. Barger, et al. | Fit Cour Coul Co. | 1. 6-53 | 1 | H | P G | |
| 181 | · Piedmont Land Company | Fift. Cons. Coal Ca. | 3-22-57 | 91 | 8 | Design C | |
| 162 | Fred M. Ligh, Trustee U. A. Barricklow) | Titt. Cars. Coal Co. | 1-16-54 | 8 | 8 | Pear Q | ٠, |
| ផ | Fred M. Link, Trustee (Floyd Poline) | Fitt. Coms. Coal Co. | 423 83 | 8 | 381 | Per C | Han |
| 767 | Fred M. Link, Trustee (Hulph F. Mone) | Pitt, Cons. Cod, Co. | 415.33 | 23 | ģ | Deed | inou C |
| 18 | Allen E. Center & Nelle Carter | Pirt Cons. Coal Co. | 2-28-53 | 55 | B | Deed | rent; |
| g. | Fred M. Link, Trustee (R. J. Bartickhw) | Pitt Cors. Coal Co. | 4.20-53 | . 801 | 88 | Б | , OL |
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| <u> </u> | | | | | | ; ; | 7. 10. | ogo. | | 363 John Wolfs Smith, et al. | 364. The Leavals Company | 284a. Alles Thompson and Shirley Thompson | | ٠. | Lange | al. | Michael Board | - | 30k L. T. & Myrthe M. Hed 370. L. T. & Myrthe M. Hell | as Dy E. | This Deed to the Gentler from its whally a factor to the recording of | of firm No. 365 of this Sobelivision 6.04 and all | | | | The second second second second |

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| Their of Indonesia | 81 | 19.30-22 | 3-23-57 | | 850 4 | | • | 13.1 T | 8.53 | 1-30-57 | 11-10-55 | 10-31-49 | 10-11-49 | 10-31-40 | EP-11-03 | 10-31-49 |
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| | Ceartie | Village of Cadiz | Merle P. & W. M. Berrage | Psedmont Land Company MoVeders, P. Pulton | | Ohio Edison Campaby | Ohio Edison Company | Population III a. II | Central promotes Cost Conference | Control Examples Control | Serway Coal Company | The Historian Cont. of Cole Cont. of Cole Company | (Files Mes Corbing) | (Kobert H. Lyle Jense) | Country C. Lyle least) | Tri County Lant's Computy (N. R. Edwards lones) Tri County Lands Computy (Gaoes Burinstell letter) |
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(4) Conveyances from Pitt. Cons. Coal Co. and Cons. Coal Co. (Penn.) affecting properties described in this Subdivision 5.94.

| | | | | ed County of Doods | ** | |
|----------------------|---|----------------------|------|-----------------------|-----------------------|---------------|
| Graptor | Countro | Date of Instrument | Vol | Page | Type of Instrument | |
| Pitt. Cuns. Coal Co. | Ross Compher and N. T. Wilson | 1-11-50 | 128 | 588 | Deed | • . |
| Pitt, Conr. Conl Co. | Local Union No. 3828, United Mine Workers of America | 11 -29-46 | 120 | 588 | Deed | |
| Pitt. Cons. Coal Co. | Charles Compher and Sadie Compher | 2-19-5I | 129 | 351 | Deed | |
| Pitt. Cons. Coal Co. | William Abel | 11- 8-56 | 139 | 332 | Deed | • • |
| Pitt. Cons. Coal Co. | Pittsburgh, Cincinnati, Chicago and St. Louis Railroad Company | 11-12-47 | 122 | 574 | Deed | |
| Pitt. Cons. Coal Co. | Pittsburgh, Cincinnati, Chicago and St. Louis Railroad Company | 9- 9-53 | 134 | 475 | Deed | ន |
| Pitt. Cons. Coal Co. | Sarah McCullick | 6-16-46 | 122 | 189 | Deed | |
| Fitt. Cons. Coal Co. | Coleman and Gizalla Popp | 9-8-47 | 122 | 191 | Deed | |
| Pitt. Cons. Coal Co. | Ray J. Reppart and Ethel M. Reppart | 10- 7-47 | 122 | 313 | Deed . | |
| Pitt. Cons. Coal Co. | Isaac T. Weller and Lillian Waller | 8- 8-46 | 122 | 304 | Deed | |
| Pitt. Coos. Coal Co. | William H, and Mary V. George | 10- 7-47 | 122 | 346 | Deed | Harri |
| Pitt. Cons. Coal Co. | Charles Bumbule and Kolese Bumbule | 10- 7-47 | 122 | 429 | Deed |) } |
| Pitt, Cons. Coal Co. | Sherman Anderson | 6-7-48 | -124 | 72 | Deed | ···· |
| Pitt. Cons. Coul Co. | John DeCorte | 9-26-52 | 131 | 545 | Deed | OFFO (311) |
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| | | | | d County of Deeds | Type of |
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| Gruntor | Grantes | Date of Instrument | Vol | Page | Instrument |
| Pitt. Cons. Coal Co. | James K. Hawthome and Helen Hawthome | 11- 5-47 | <u>122</u> | 455 | Deed |
| Pitt. Cons. Coal Co. | Cearge T. and Florence M. Porter | 5-19-48 | 124 | 81 | Deed |
| Pitt. Cons. Coal Co. | The Powheten Mining Company | 4-30-48 | 123 | 504 | Deed |
| Pitt. Cons. Coal Co. | John Dombreski | 8-10-48 | 124 | 407 | Deed |
| Pitt. Cons. Coal Co. | Robert A. Russell and Isabello C. Russell | 12-31-48 | 125 | 458 | Deed |
| Pitt. Cons. Coal Co. | Edward Morgan | 8.30-52 | 135 | 10 | Deed |
| Pitt. Coms. Coal Co. | Willard C. Hawthorne | 5-19-50 | 128 | 348 | Deed |
| Pitt. Cons. Coal Co. | Willard C. Howthorne | 12-13-58 | 139 | 403 | Deed |
| Pitt, Cons. Coal Co. | H. and William F. Myers | 5- 5-55 | 136 | 506 | Deed |
| Pitt. Cons. Coal Co. | Ralph McFadden | 11-28-50 | 129 | 189 | Detd |
| Pitt. Cons. Coal Co. | Ralph L. Jenkins | 8-30-51 | 120 | 284 | Deed |
| Pitt. Coms. Coal Co. | Lois K. Johnson and Jack Allen Johnson | 11- 5-54 | 138 | 140 | Deed |
| Pitt. Cons. Coal Co. | David R. Rice and Helen S. Rico | 6-23-55 | L37 | 89 | Deed |
| Pitt. Cons. Coat Co | Paul W. Burns and Frances C. Burns | 4-4-58 | 138 | 225 | - Deed - |
| Pitt. Cons. Goal Co. | William H. Dreyer and Lucille Dreyer | 9-13-58 | 139 | 211 | Deed |

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| _ | | | Records Record | d County of Deeds | Type of | |
|--|---|--------------------|-------------------|----------------------|------------|--------|
| | Grantes | Date of Instrument | Vol. | Page | Enstrument | |
| Grantor | Bertha M. Love | 3-22-55 | 136 | 395 | Deed | |
| Pitt, Cons. Coal Co. Pitt. Cons. Coal Co. | Ceorge H. Dunlap and Gladys R. Dunlap | 12-11-50 | 129 | 387 | Deed | • |
| Pitt. Cons. Coal Co. | Harry C. Hopkins and Margaret M. Hopkins | 1- 8-51 | 129 | 285 | Deed | |
| | Edgar Dodds and Helsa Dodds | 7- 3-52 | 156 | 200 | Deed | 1.1 |
| Pitt. Cons. Coal Co. | George Ballog and Rose Ballog | 8-30-52 | 131 | 493 | Deed | 1 |
| Pilt. Cons. Coal Co. | Athens Township Trustees | 11-27-56 | 139 | 406 | Decd | |
| Pit. Cons. Coal Co. | | 6-22-55 | 137 | 19 | Decd | 60 |
| Pitt, Cons. Coal Co. Pitt, Cons. Coal Co. | R. M. Evens and Arma J. Evens Jesse E. Harris and Lacy Lucille Harris | 11- 4-50 | 129 | 141 | Deed | 8 |
| Pot. Coos. Coal Co. | Call and Lauter, Inc. | 9-27-52 | 131 | 541 | Deed | |
| PRIL Cons. Cosi Co. | Allen W. Scott | 10-27-53 | 136 | 383 | Deed | |
| The second secon | Paul Hamilton | 4-24-58 | 141 | 622 | Deed | |
| Pitt. Cons. Coal Co. | Charles J. Speer | 1-28-53 | 133 | 200 | Decd | Ħ |
| Pitt. Cons. Conl Co. | Allen Carter and Nellie Carter | 2-23-53 | 135 | 417 | Deed | 2 |
| Pitt. Cons. Coal Co. | Joseph H. Johnson and Ethel B. | 8-19-65 | - 138 | 298 | Deed | Countr |
| Pitt. Cons. Coal Co. | Craig Porter | 2- 4-57 | 150 | 74 | Deed | Orto |

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| 50 | Granter | <u>Grantse</u> | Date of Instrument | Records Record Vol. | d County of Deeds Page | Type of Kutrument |
| | Pitt. Cons. Coel Co. | The Wheeling and Lake Eric Rail- way Company | 11- 9-53 | 134 | 551 | Deed |
| , ધ . | Pitt. Cons. Coal Co. | The Yougalogheny and Ohio Coal Company | 8-18-54 | 135 | 590 | Deed |
| | Pitz. Cons. Coal Co. | Silas Harris & Serah R. Herris | 1-16-52 | 133 | 557 | Deed |
| | Put. Cons. Coal Co. | Clearfield Bituminous Coal Corpora- | 12-29-52 | 133 | 131 | Deed |
| | Pitt. Cons. Coal Co. | Tasa Coal Company | 11- 8-55 | 137 | 607 | Deed |
| | PRt. Cans. Coal Co. | J. C. Dunlap | 5- 4-58 | 138 | 329 | Deed |
| - | Pitt. Cons. Coel Co. | Ed Rutkoski | 3-23-56 | 139 | 497 | Deed |
| • | Pitt. Cons. Coal Co. | Nancy Hawthorne | 12-13-58 | 139 | 405 | Deed |
| · | Fitt. Cons. Coal Co. | Coorge T. Parter & Florence M. | 2- 4-57 | 139 | 502 | Deed |
| | Pitt. Cops. Coal Co. | Daniel J. Coga | 4- 3-47 | 128 | 152 | Decd |
| · | Pitt. Cons. Coal Co. | Clyde B. Worstell | 3-22-57 | 140 | 36 | Deed |
| ð | Pitt. Cons. Coal Co. | The Powhatan Mining Company | 1-28-58 | 141 | 525 | Deed |
| ا معمو | Coos. Coal Co. (Peno.) | The Powhstan Mining Company | 12-29-58 | 142 | 440 | Deed |
| 157 | Cons. Coal Co. (Penn.) | Francis Hall and Opal Hall | 4 2-59 | 142 | 580 | Deed |
| | Cons. Coal Co. (Penn.) | Lester E. Liles | 11- 4-59 | 144 | 40 | Deed |
| 74143 | Cons. Coal Co. (Pean.) | Andy DiPalma | 11-12-59 | 144 | 2 | Deed |
| E: | | | | | - | |

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| 6 | | | | Bar Bo | orded County | Type of | |
| hu C | | Gentee | Date of laster | ment Vo | Page | Instrument | |
| | Cons. Coal Co. (Penn.) | Thomas A. Bates and Gladys M. Hates | 1-15-60 | 14 | 4 84 | Deed | • |
| G. H | a contraction | Moore Aviation, Inc. | 11-12-59 |) 14 | 4 89 | Deed | |
| • | Cons. Coal Co. (Penn.) | Lester E. Liles | 3-13-6 | L 14 | 16 336 | Deed | |
| 7 | Cons. Cosl Co. (Penn.) | William Abel | 11.15-6 | 14 | 17 22 | Deed | |
| | Cons. Coal Co. (Penn.) | Authory Zitko | 5-17-6 | z 1 4 | 7 436 | Deed | • |
| | Cous. Coal Co. (Penn.) | Anthony Zitko | 5-17-6 | 2 14 | 17 435 | Deed | |
| . • | Cons. Coal Co. (Penn.) | Village of Hopedale | 8-7-6 | 2 14 | 7 521 | Deed | ٠. |
| | Cons. Coal Co. (Penn.) Cons. Coal Co. (Penn.) | Board of Trustees of Green Township | 6- 7-6 | 2 14 | 17 443 | Deed | 셙 |
| | a a la (B-a) | Donald Walson and Anna Walson | 7-30-6 | 2 . 14 | 18 485 | Deed | |
| : | Cons. Coal Co. (Pena.) | George Stonebraker | 7-30-6 | 2 14 | 18 110 | Deed | |
| | Cons. Coal Co. (Penn.) | Edward L. Seleski | 11-19-6 | 2 14 | 8 417 | Deed | |
| | Cons. Coal Co. (Penn.) | | 12-26-6 | | 8 475 | Deed | |
| | Cons. Coal Co. (Penn.) | Adam M. Dunlap and Edith L. Dunlap | | | - | | Ï |
| • | Cons. Coal Co. (Penn.) | Adam M. Dunlap and Esther Reppart | 12-28-6 | 2 14 | 478 | Deed | C |
| ≨ | O. Carl Co. (Perm la | Adam M. Dunlap | 1-16-6 | 3 | 48 505 | Deed | . <u> </u> |
| 15 | Cons. Coal Co. (Penn.) | Norval E. Edwards | 3-21-6 | 3 1 | g 19 | Deed | (315) , Obdo |
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| New Courte Court | (Pena.) | | | | | • |
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| Alfred O. Haverfield, et al., 11-5-63 150 4 Seaway Coal Company 10-6-64 152 112 Robert Fleagane 10-6-64 152 105 Seaway Coal Company 10-6-64 152 105 Seaway Coal Company 10-6-64 152 134 Advan M. Dunlap 10-6-64 152 25 Village of Flushing 5-15-64 154 25 Village of Flushing 5-14-84 150 291 Village of Flushing 5-14-84 150 291 Village of Flushing 5-14-84 150 291 Village of Flushing 11-11-64 152 143 Dak Park Recreation Corporation 11-11-64 152 143 Harrison Lodge #219 10-20-61 147 13 James H. Milkord 11-12-58 142 356 Eleanor F. Milkord 11-12-58 142 356 Eleanor F. Milkord 11-12-58 148 59 Ohlo Power Contpany 5-14-68 189 38 | | • | | Recorded Record of | County | Į. |
| Seaway Coal Company 10-644 152 112 Robert Fleagane 10-644 152 105 Robert Fleagane 10-644 152 105 Seaway Coal Company 10-644 152 134 Adam M. Dunlap 5-1564 152 134 Village of Flucking 4-1484 150 291 Village of Flucking 5-1462 148 313 Village of Flucking 5-1462 148 313 U.S.A. 12-253 143 313 U.S.A. 12-253 143 106 Haurison Lodge #219 10-20-61 147 13 James H. Milford 11-12-58 142 355 Eleanor F. Milford 11-12-58 142 355 Eleanor F. Milford 11-12-58 148 56 Glabo Power Company 5-1468 159 159 Eleanor F. Milford 11-12-58 142 355 Eleanor F. Milford 11-12-58 148 56 Eleanor F. Milford 11-12-58 148 59 Eleanor F. | | | ц. 5.63 | 1 3 | * | |
| Robert Fleagane 10-6-64 152 89 | | ompany | 10-6-64 | 153 | 112 | ۵ |
| Robert Fleagane 19-6-84 152 105 | | <u>_</u> | 10. 6-64 | 152 | 8 | Ď. |
| Seaway Coal Company 10-6-64 152 134 Adum M. Dunlap 5-15-64 154 25 25 Villago of Flushing 4-14-84 150 291 Villago of Flushing 5-14-84 150 291 Villago of Flushing 16-2-58 148 313 U.S.A. | | - 9 | 10- 6-64 | 152 | 501 | Ç |
| Adam M. Duniap Village of Flushing 12. 2.63 143 313 13. 143 143 Village of Flushing Village of Flushing Village of Flushing Village of Flushing 12. 2.63 143 143 143 Village of Flushing Vil | | dupany | 10- 6-64 | 251 | 134 | Ď |
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| Village of Flushing 5.14-82 148 31.3 U.S.A. 12-258 148 406 Maurice D. and Elste B. Lesser 11-11-64 152 143 Oak Park Recreation Corporation 11-11-64 152 139 Harrison Lodge #219 10-20-61 147 13 James H. Milford 11-12-58 142 385 1 Eleanor F. Milford 11-12-58 142 385 1 Helau H. Dickerson 8-13-63 148 56 1 Otho Power Company 5-14-68 159 38 1 | | 5 Qui | 41484 | 25 | ä | Å |
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| Helea H. Dickerson 8-13-62 148 56 Oblo Power Company 514-68 159 38 | • ! | | | 143 | 285 | Deed |
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| • | Compse | Shartereck 4-H Park |
| | | I Co. (Penn.) |

The premises conveyed by the above instrument were described in said instrument as follows:

Situated in the State of Ohio, County of Harrison, Township of Short Creek, bounded and described as follows: Being part of the Northeast Quarter of Section No. 14, Township No. 9, Hange No. 4: Bernevine at a point in County Road No. 15, said point of beginning bears South 2° 30° West 1760.18 feet from the northeast corner of Section No. 14, running thence South 37° 19′ 40″ West 42637 feet to a point in the creek; thence North 6° 59′ 10″ East 185.08 feet to a point in the creek; thence North 57° 49′ 30″ East 199.20 feet to a point in the creek; thence North 13° 49′ 30″ East 195.54 feet to a point in the creek; thence North 13° 49′ 30″ East 195.54 feet to a point in the creek; thence North 38° 43′ 50″ East 154.97 feet to a point near County Road No. 15, thence along said road South 25° 18′ 02″ East 288.80 feet to a point in said road; thence South 49° 15′ 00″ East 310.20 feet to the place of beginning. Contrantor 5.083 Acres, more or less.

Examine and Reserving therefrom unto the Grantor, its successors and assigns, the following rights, privileges and immunities as set forth in the above referred to deed:

It being mutually understood and agreed by and between the Crantor and the Crantee, that the Crantor is conducting, and may hereafter conduct, coal mining operations in the immeriate vicinity of the herebefore described permises; and the Crantee, as a part of the consideration of the within conveyance, does hereby routise, release and forever discharge the said Grantor, its successors and assigns, from any and all claims for damage which may have arisen, or which may hereafter arise, as a result of the conduct of coal mining operations on premises within the general vicinity of the hereinbefore described premises.

Said bereinhefore described premises are also Scoper to all legal highways, enceptions, reservations, easements, rights, limitations and restrictions of record on or relating to the same.

(Being, a part of the same premises as were conveyed by Hanna Lands Company to Pittsburgh Consolidation Coal Company by deed dated June 8th, 1946, which deed is recorded in Vol. 137 A. & B., Page 1 et seq., Dreed Coal Company by deed dated June 8th, 1946, which deed is recorded in Vol. 137 A. & B., Page 1 et seq., Dreed

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Records of Barrison County, Ohlo, and being designated therein as part of Pt. I, Parcel No. 22, Trac

To HAVE AND TO HOLD said premises unto the said Grantee for so long as it shall continue to use and occupy premises for 4-H Park Recreational Purposes Only.

And the said Grantee agrees, by the acceptance of this grant that wherever it shall cease to use and cocupy hereinbefore described premises for the purposes hereinbefore set forth, then and in that event, all right, title, into and estate of the Grantee in and to the hereinbefore described premises shall cease and determine, without coury by exation, its successors and assigns, and shall revert to the Granter herein, Cousoidation Coal Company, its ruccessor assigns.

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| · · · · | Cartie | Toughtogheny and the Coal Company |
| | Course Coul Co. (Born.) | |

The premises conveyed by the above instrument were described in said justimment as follows:

All the Lower Freeport scam coul, which is the same scam of coal presently hong rathed in the Nelms No The Youghingheay and Ohio Coal Company, that enderlies the following described lands situated in Gre Township, Harrison County, Ohio.

Beny part of the Northeast Quarter of Section 16, Township 9, Hange 4; Bucnowne at the most Northwester and Anna Kobus by Deed dated December 7, 1964, and recorded in Volume . Page . of Harrison Coun Record of Deeds, said corner bearing South 43° 41° 60.24" West, 1778.45 feet distant from a stake at the Northest conner of said Section 16; thence with the North line of said land under which the Lower Freeport seam coal w. J. Wheeler, South 87° 40' East, 509.69 feet to a point on a Line of Innis now; or formerly, belonging to Cabelonging to the Granter and Granter herein by two deeds, one from The M. A. Hanne Company to the Grante

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railroad company as it would acquire by proceedings instituted in the ordinary way in Probate Court for the appro-

The Crantee herein, by acceptance of this deed, agrees to leave unmined all said Lower Freeport seam coal conveyed bereby that lies within Fifty (50) feet of the said Line of Exchange.

This conveyance is made Sompetr to a small parcel of land 100 feet wide and 1018 feet long that may in part everile the coal hereby conveyed, and which was conveyed by Stuart B. Shotwell, et us., to The W. & L. E. R. R. Company by deed dated September 13, 1839, and recorded in Volume 38, Page 467 of Harrison County, Ohio, Record of Deeds, and which instrument, by which the railroad company acquired title to said strip, states But it

berein dated October 21, 1959, and recorded in Volume I/3, Page 459 of Harrison County, Ohio, Record of Deeds: and the other from the Granteo herein to The M. A. Hanna Company, dated October 31, 1959, and recorded in Volume 143, Page 481, of Harrison County, Olifo, Record of Deeds; thence with the said Line of Exchange, and also with the line of other coal belonging to the Grantor berein, South 17° 35' West, 465.12 feet to a point on the Southwesterly line of said land under which the Lower Freeport seam of coal was conveyed to the Crantor herein by John and Anna Kobus, and line of lands now, or formerly, belonging to Carl J. Wheeler; thence leaving the said Line of Exchange, and with the Southwesterly line of said land under which the Lower Freeport seam coal was conveyed to the Crantor herein, by John and Anna Kobus and also with the line of lands now, or formerly, belonging to Carl J. Wheeler, North 38° 28' West, 59280 feet to the place of beginning; Contaming 2.625 acres, more

Tockries with the free and uninterrupted right of way into and under said above-described land at such points and in such manner and at such times, as the Grantou herein, its successors and assigns, may desire for the surpose of digging, roining, ventilating, draining, removing and carrying away all, or any portion, hereinabove described, without being required to leave any coal in place, or otherwise, to provide for the support of the overlying strata, or surface, or anything therein, thereon or thereunder; and without being liable for any damage to the overlying strata, or surface, or anything therein, thereon or thereunder by reason of the mining and removing of all or any portion of said coal, or of coal adjacent thereto; and with the right to dig, mine, ventilate, drain, remove and carry away through the said above-described coal any adjoining or other coal of the same seam, now owned, or that may beseafter be acquired by the Grantee herein, its successors and assigns; and also the right to construct and

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maintain ways or passages through said shove-described coal for the transportation, transmission, or conduction of any and all supplies, electrical power lines, wasto materials, employees and other persons and things which the Grantee herein, its successors and assigns, way desire to employ in digging, mining, draining, ventilating, removing and courying away said above described cost, or any adjoining, or other coat, now owned, or that may hereaft be sequified by the Grantee horein, its successors and assigns.

The right to drill for oil and/or gas through the coat above described without conflicting with the rights of said Granten herein, its suncessors and assigns, as above granted, using, however, all necessary safety devices known to epartment of Mines, State of Ohio, shall be acquired, and payment the bounces and provided by the mining laws of the State of Ohio, is hereby reserved, but before drilling of any all thall be made by the Grantors, or their heirs and assigns, to the Grantee herein, its successors and assigns, for such coal that is left unmined as protection about such off and/or gas wells, and of such amount as meets the approval of the Department of Mines of the State of Ohlo, at the rate of 50 cents per ton.

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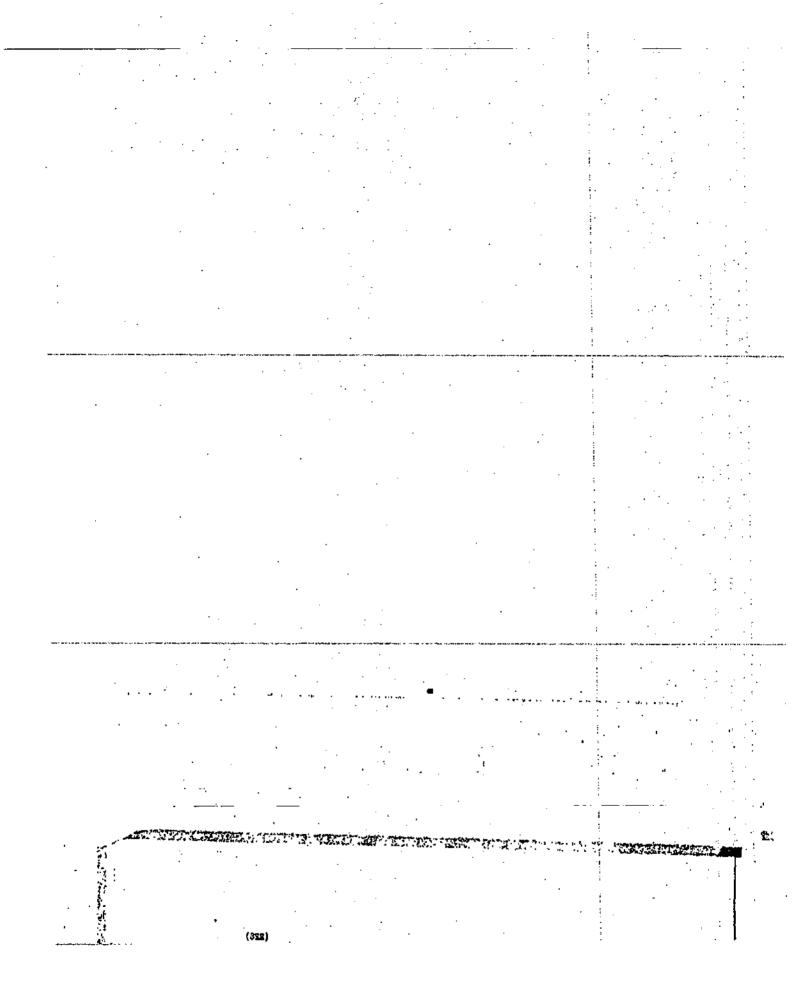
| this Subdivision 5.04. | | · · · | Recorded County Record of Learns | s described Type of |
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| Crustor | Grantee | Date of Instrument | Vol. Page | Instrument |
| Fite Cons. Coal Co. | The Wheeling and Lake Eric Rall- way Company | 6-12-48 | Unrecorded | Agreeme |
| Firt. Cons. Coal Co. | New York, Chicago and St. Louis Hailroad Company | 8- 5-54 | Unrecorded | Lesso |
| Pitt. Conz. Coal Co. | The Bedway Coal Company (re- newed Jan. 1, 1968) | 1-15-55 | Unrecorded | Lesse |
| Pitt. Cons. Cost Co. | John DeCorte | 10-25-58 | Unrecorded | Адтееше |
| Pitt Cons. Coal Co. | The Powhaten Mining Company | 1-28-58 | 37 131 | Lessa |
| Cons. Coal Co. (Penn.) | Cadiz Lions Club (renewed May 13, 1964) | 3- 5-59 | 37 129 | Lease |
| Cons. Cosl Co. (Penn.) | U.S.A. | 8-14-64 | Unrecorded | Lease |
| Cons. Coal Co. (Perm.) | Helen DeCorte | 3-2-61 | Unrecorded | Agreeme |
| Cons. Coal Co. (Penn.) | Allen W. and Bess P. Soutt | 10- 6-64 | Unrecorded | Agreeme |
| Cons. Coal Co. (Penn.) | Moore Mining Company | 8-19-65 | Unrecorded | Lease |
| Cons. Coal Co. (Penn.) | Louis Zaccagoini | 5- I-62 | Unrecorded | Leasu |
| Cons. Coal Co. (Penn.) | Seaway Coal Company | 2-15 -64 | Unrecorded | Lesse |
| Cons. Coal Co. (Penn.) | Distaff, Inc. | 7- 7-65 | Unrecorded | Lease |
| Const Coar Cox (remt.) | Arterior Pro- | | Recorded County Record of Deeds | • |
| Fitt. Cons. Coal Co. | Board of Commissioners of Harrison County | f- 3-55 | 141 251 | Agreeme |
| Pitt. Cops. Coal Co. | Edgar and Helen Dodds | 9-29-55 | 156 208 | Agreeme |
| Cons. Coal Co. (Pena.) | The Powhatan Mining Company | 12-29-58 | Unrecorded | Assignment of Lease |

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| Pitt. Cous. | - | Reil & Lake Mining Company | 8- 2-50 | 128 | 494 | Easement |
| Pitt. Cons. | | Ohio Power Company | 8-30-51 | 130 | 407 | Essencet. |
| - | | Ohio Power Company | 10-13-54 | 136 | 67 | Easement |
| Pitt. Cons. | | Buckeys Pipeline Company | 8-14-51 | 130 | . 204 | Easement |
| Pitt. Cons. Pitt. Cons. | Coal Co. | Board of Commissioners of Harrison County | 1-29-57 | 139 | 495 | Easement |
| Pitt, Coos | Cost Co | Ohio Power Company | 7-27-50 | 128 | 583 | Easement |
| Fift, Cook | COM CO. | | | | d County Records | |
| Pat. Cons | Coal Co. | Natural Cas Company of West Virginia | 8-15-51 | 11 | 401 | Easement |
| Pitt. Cons | Coal Co. | Natural Cos Company of West Virginia | 8-15-51 | XX | 403 | Easement |
| Pitt. Cous | Coal Co. | Natural Gas Company of West Virginia | 8-15-51 | ш | 404 | Easement |
| Pitt Cons | Cosi Co. | Natural Gas Company of West Virginia | 8-15-51 | : 11 | 405 | Essement |
| Pitt. Coru | Cost Co. | Natural Cas Company of West Virginia | 8-15-51 | 11 | 406 | Easement |
| Pitt Cons | Coal Co | Natural Gas Company of West Virginia | 0-15-5 1 | 11 | 407 | Easement |
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| Pitt, Cons. Coal Co. | Natural Gas Cor West Vugida | Natural Gas Company of West Viginia | 8-15-51 | ∄ | # | ង្ខ |
| Pit Cone Coal Co. | Natural Gas Cor West Vinginia | Natural Gas Company of West Virginia | 8-15-51 | == | 412 | Ę. |
| Pitt Cous. Coal Co. | Natural Gas Coor West Virginia | Natural Gas Company of West Virginia | 6-30-51 | Ħ | 420 | 23 8 |
| Pift, Cons. Coal Co. | Natural Gas Cor West Vitginia | Natural Gas Company of West Virginia | 8-15-51 | = | 413 | द्ध |
| Pirt. Cons. Coal Co. | Natural Gas Con West Virginia | Natural Gas Company of West Virginia | 6.16.51 | === | 75 | 펺 |
| Pitt. Corrs, Coal Co. | Natural Gas Co West Virginia | Natural Gas Company of West Virginia | 6.16.51 | = | 8 | g |
| Fift Cons. Coal Co. | Natural Gas Cox West Virginia | Natural Gas Company of West Virginia | 6.16-51 | == | 383 | 4 |
| Pitt. Cons. Coal Co. | Natural Gas Con West Virginia | Natural Gas Company of West Virginia | 2.14-49 | Ħ | 718 | E S |
| Pitt. Cous. Coal Co. | Natural Gas Co West Virginia | Natural Gas Company of West Virginia | 2-14-49 | = | ង | E S |
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| Pitt Cont. Con Co. | The Buckey | The Buckeye Pipeline Company | 2-19-53 | 133 | 484 | Has |
| Fift Cent. Coal Co. | The Buckey | The Buckeye Pipeline Company | 2. 9.58 | 131 | 150 | Ea. |
| Piff. Cans. Coal Co. | The Buckey | The Buckeye Pipeline Company | 3-7-52 | 121 | 627 | East. |
| Fitt. Cons. Coal Co. | The Buckey | The Buckeye Pipeline Cumpany | 3-7-52 | 101 | 165 | East |
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LVOL 157 PAGE 153

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| | Gratie . | The Buckeye Pipeline Company | 3- 7-52 | E31 | 144 | Easement | |
| | Cons. Coal Co. Cons. Coal Co. | The Buckeye Pipeline Company | 3- 7-52 | 131 | 143 | Easement | |
| | Cons. Coal Co. | The Buckeye Pipeline Company | 3- 7-52 | 131 | 138 | Essement | |
| | Cons. Coal Co. | Board of Commissioners of Harrison County | 5-25-53 | 134 | 168 | Casement | |
| Pitt. (| Cons. Coal Co. | Board of Commissioners of Harrison County | 9-14-54 | 135 | 250 | Kasement | |
| | - 0-10c · | The East Ohio Gas Company | g. g.53 | 134 | 385 | Essement | |
| | Cons. Coal Co. | The Ohio Power Company | 9-9-53 | 134 | 566 | Essement | |
| | Cons. Coal Co. Cons. Coal Co. | The Chio Power Company | 9 9-53 | 134 | 352 | Eascenent | à |
| | Cons. Coal Co. | Board of Commissioners of Harrison County | 11-27-53 | 131 | 557 | Essement | |
| Pitt. | Cons. Coal Co. | The Ohio Power Company | 12- 7-50 | 135 | 92 | Essement | |
| - 1 | Cons. Coal Co. | The Pittsburgh, Cinchnatt, Chicago and St. Louis Railroad | 11- 9-53 | 134 | 548 | Easement | - |
| | | Company, and The Pennsylvania Bailroad Company, and The Wheeling and Lake Eric Railway Company | | · | | _ | Hum |
| Pin. | Cons, Cosl Co. | The Wheeling and Lake Erie Railroad Company | 12- 9-54 | 136 | 230 | Easement | 2 |
| Pitt. | Cour. Coal Co. | The Ohio Power Company | 5-24-53 | 133 | 449. 68 | Essement | , C |
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| Pitt. Cons. Conl Co. | The Wheeling and Lake Erio Railway Company and The New York, Chicago and St, Louis Railroad Company | 5-24-54 | 135 | 345 | Kasement |
| Pitt. Cons. Coal Co. | The Ohio Power Company | 2-17-55 | 138 | 461 | Earement |
| Pitt Cons Coal Co. | Philadelphia, Baltimore and Washington Railroad Company | 7-28-55 | 141 | 521 | Easement |
| Pitt, Cons. Coal Co. | The Ohio Power Company | 9-15-55 | 137 | 416 | Easement |
| Pitt. Cons. Coal Co. | | | | d County of Leases | |
| . Par Com. Com Co. | Natural Gas Company of West Virginia | 12-12-53 | 36 | 153 | Essement |
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| Pitt. Cons. Coal Co. | Natural Cas Company of West Virginia | 10-31-58 | 139 | 340 | Essement |
| Pitt. Cons. Coal Co. | The Pittsburgh, Cincinnati, Chicago and St. Louis Railroad Company, and The Pennsylvania Railroad Company | 10- 4-56 | 141 | 516 | Easement |
| Pitt. Cons. Coal Co. | The New York, Chicago and St. Louis Railroad Company | 9- 9-57 | 141 | 313 | Essement |
| Pitt. Cons. Coal Co. | Ohio Power Company | 3-24-48 | 123 | 483 | Easement |
| Pitt. Cons. Conf Co. | Ohio Power Company | | 123 | 487 | Easement |
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(ii) Options and commitments of Cons. Coal Ga (Pena.) for the resale or reconveyance of lands to its immediate

predecesoris-in-title upon completion of mining and rechmetion of such lands;

(iii) A contract for pasturage of cattle, dated Rebroary 5, 1968, botween Cons. Coal Co. (Penn.) and Orleion Parins; (iv) Option Agreement from Cons. Coal Co. (Form.) to Tennece Oil Company dated January 17, 1988, which Option bas been exercised by letter of June 8, 1968 from Techeco Oil Company; and

(v) Commitments of Cons. Coal Co. (Pean.) to public and private bodies for conveyances of surface lands with or exceed in the aggregate 350 Acres and which will met interfere.

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APPENDIX H EBS CERTIFICATION

APPENDIX H

EBS CERTIFICATION

CERTIFICATION OF THE ENVIRONMENTAL BASELINE SURVEY PROPOSED CADIZ DROP ZONE PROPERTY FOR PITTSBURGH INTERNATIONAL AIRPORT AIR RESERVE STATION

Earth Tech, Inc., has conducted this Environmental Baseline Survey on behalf of the Air Force. Earth Tech, Inc., has reviewed all appropriate records made available, and conducted visual site inspections of the selected facilities following an analysis of information during the record search. The information contained within the survey report is based on records made available and, to the best of Earth Tech, Inc.'s knowledge, is correct and current as of October 2008.

Carl Rykaczewski, REA No 07598
Earth Tech, Inc.

I certify that the property conditions stated in this report are based upon a review of available records, visual inspections, and analysis, as noted, and are true and correct to the best of my knowledge and belief.

GORDON H. ELWELL, JR., Colonel, USAFR Commander, 911th Airlift Wing

Date

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APPENDIX I AIR EMISSIONS CALCULATIONS

AIRCRAFT EMISSIONS CALCULATIONS FOR PROPOSED ACTION AIRCRAFT OPERATIONS

Aircraft emissions from aircraft operations that would occur under the Proposed Action were calculated using the methodology and emission factors in <u>United States Air Force IERA Air Emissions Inventory Guidance Document for Mobile Sources at Air Force Installations</u> (O'Brien, Robert J. and Mark Wade, 2002. Karta Technologies, Inc., revised December 2003).

Aircraft: C-130 H

Engine: T56-A-15, 4 per aircraft

Criteria Pollutant Emission Factors (excluding SOx)

| | | | Emission Factor in lb Pollutant per 1000 lb fuel burned (lb/1000 lb) | | | | | |
|-----------------|---------------|---------------|--|------|------|-----------|--|--|
| | | Fuel Flowrate | | | | | | |
| Aircraft Engine | Power Setting | (lb/hr) | NO_x | CO | VOC | PM_{10} | | |
| T56-A-15 | Ground Idle | 900 | 7.49 | 3.84 | 1.97 | 3.64 | | |
| | Flight Idle | 1,240 | 8.31 | 2.82 | 0.58 | 3.85 | | |
| | Normal RTD | 2,180 | 9.69 | 1.65 | 0.42 | 1.46 | | |
| | In Mil | 2,456 | 11.42 | 1.77 | 0.28 | 1.22 | | |

Emission Factor for SOx

Emission Factor = 20 * average sulfur content of fuel (percent by weight)/1000 lb fuel.

Based on an average sulfur content of JP-8 in Pennsylvania of 0.023, the emission factor for SOx is 0.46 lb/1000 lb.

Emission Calculations

Annual emissions (in lbs) for each pollutant were calculated using the following formula:

 $E_{pol} = (AT / 60) * NF * (FFR / 1000) * EF * NE$

Where,

 E_{pol} = Emissions of a particular pollutant generated from a specific aircraft's annual flights within the air space (lb/yr)

AT = Average time per flight (by the applicable aircraft) within the air space (min/flight)

60 = Factor for converting minutes into hours (min/hour)

NF = Number of flights (within the air space) conducted by the applicable aircraft during the year (flights/yr)

FFR = Fuel Flow Rate per engine (lb/hr)

1000 = Factor for converting "lb/hr" to "1000 lb/hr"

EF = Emission Factor (lb/1000 lb)

NE = Number of engines on the aircraft

For this EA annual aircraft emissions were calculated for C-130H aircraft activity in the vicinity of the proposed Cadiz Drop Zone, including approach, overflight, and departure of the drop zone. Aircraft activity before approach to and departure from the drop zone area is assumed to be part of the existing low-level flight activity occurring in the area; therefore, emissions for this activity were not calculated as part of the proposed action. The emissions presented in the following table were calculated using 6 minutes flight time within the drop zone area for AT, a maximum of 2,160 flights per year for NF, and the "normal RTD" for FFR.

Total Annual Drop Zone Emissions

| | СО | VOC | NO _x | SO_X | PM ₁₀ |
|-------|----------|--------|-----------------|--------|------------------|
| lb/yr | 3,107.81 | 791.08 | 18251.31 | 866.42 | 2749.94 |
| tpy | 1.55 | 0.40 | 9.13 | 0.43 | 1.37 |

APPENDIX J REGULATORY CONSULTATION



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

Matthew Malle AECOM Environmental/Earth Tech Biologist 1461 East Cooley Drive Suite 100 Colton, CA 92324

Ohio Department of Natural Resources Division of Natural Areas and Preserves Ohio Natural Heritage Program 2045 Morse Rd., Bldg. F-1 Columbus, Ohio 43229

Subject: Data Request Form--Proposed Cadiz Drop Zone Cadiz, OH

Ohio Department of Natural Resources:

AECOM Environmental/Earth Tech has been hired to prepare a combined environmental assessment (EA) and environmental baseline survey (EBS) to support the proposed acquisition of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone meets these requirements.

The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio. The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control.

The proposed drop zone consists of a rectangular drop zone and a circular drop zone superimposed on each other. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis. The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone.

The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS.

Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as "actual loads" would be dropped only 2-3 time per month.

According to the U.S. Fish and Wildlife Service, the only federally listed species recorded for Harrison County is the federally endangered Indiana bat (*Myotis sodalis*). Specific information required for our Environmental Assessment is a comprehensive list of federally listed species with the potential to occur on or adjacent to the proposed Project Site. Specifically, we would like to obtain information about regionally significant Indiana bat hibernacula (within 10 miles of Project Site) and capture records (within 5 miles of Project Site) to include within the EA biological assessment.

Please let me know if you have any addition concerns or if you require additional information.

Best Regards,

Matthew Malle Biologist

909-554-5041 Office

Matthew.Malle@AECOM.com

Matthe Malle



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

Division of Natural Areas & Preserves

Steven D. Maurer, Chief
2045 Morse Road, F-1

The state of the control of the Phone: (614) 265-6453 Fax: (614) 267-3096

November 19, 2008

Matthew Malle AECOM Environmental/Earth Tech 1461 E. Cooley Dr., Suite 100 Colton, CA 92324

Dear Mr. Malle:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species near the AECOM Environmental/Earth Tech Proposed Cadiz Drop Zone project #106627. The site is located in Secs. 13, 14, 19, and 20, Cadiz Twp., Harrison Co., Flushing Quadrangle. We have no records of Indiana Bats within 5 miles of the project and no records of Indiana Bat Hibernacula with 10 miles of the project.

There are no existing or proposed state nature preserves at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, state parks, state forests, scenic rivers, or wildlife areas within the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

Please contact me at (614) 265-6409 if I can be of further assistance.

Sincerely,

Butch Grieszmer, Data Specialist

Resource Services Group



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

02 Dec 08

Dr. Mary Knapp U.S. Fish and Wildlife Service 6950 Americana Parkway Suite H Reynoldsburg, OH 43068-4127

Subject: Request for Information on Federally Listed Endangered, Threatened and Candidate Species and Notification of an Environmental Assessment for the Proposed Cadiz Drop Zone Project.

References:

- (a) Endangered Species Act of 1973, Section 7(c)(1)
- (b) National Environmental Policy Act

Dear Dr. Mary Knapp:

In accordance with references above, we are preparing to issue an Environmental Assessment (EA) to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR). We request you confirm that the threatened, endangered species and proposed candidates list is current and complete. Please identify any possible adverse impacts affecting species or critical habitat. Attached to this document is a brief description of the proposed action including a discussion of threatened and endangered species and figures showing the project location and boundary.

We appreciate your assistance with our efforts to identify important biological resources early in the EA development. Upon completion, a copy of the EA will be forwarded to your office for review.

If you have any questions or comments, please contact me at (909) 554-5052.

Very truly yours,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachments:

- 1. Environmental Assessment Information
- 2. Ohio DNR Letter
- 3. Figure 1
- 4. Figure 2
- 5. Figure 3

Attachment 1 Environmental Assessment Documentation Proposed Cadiz, OH Drop Zone

Proposed Action

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone meets these requirements.

The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio (lat/long: 40.226695, -81.044254). The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control.

The proposed drop zone consists of a rectangular drop zone and a circular drop zone superimposed on each other. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis. The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone.

The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as "actual loads" would be dropped only 2-3 times per month.

Alternatives to the Proposed Action

No Action Alternative

Under the No-Action Alternative, the AFR would not lease the property from CONSOL Energy to establish the new Cadiz Drop Zone. Airdrop training would continue at the Starvaggi Drop Zone. There would be no change in existing conditions. Because of limitations on use of the Starvaggi Drop Zone, continued reliance on this site as its only drop zone training site would limit the 911 AW's training capability and combat readiness and is not consistent with the purpose and need for the proposed action.

Biological Resources

The property is located within the Monongahela Transition Zone of the Western Alleghany Plateau Ecoregion. Potential natural vegetation in this ecoregion consists of mixed mesophytic and mixed oak forest (U.S EPA, 2008). The following discussion of biological resources on and adjacent to the property is based on observations made during the visual reconnaissance survey (VRS) conducted on 14 October 2008.

The majority of the property is on a reclaimed strip mine. The mined area has been graded and revegetated and is currently a grassland used for cattle grazing. The vegetation consists primarily of grasses and legumes (e.g., clover, vetch) with some other forbs, including *Aster* sp., Queen Anne's lace (*Daucus carota*), chicory (*Cichorium intybus*), goldenrod (*Solidago canadensis*), and teasel (*Dipsacus fullonum*). A few small single cottonwood (*Populus deltoides*) and black locust (*Robinia pseudoacacia*) trees are present in the grassland area. Two small wooded areas, located at the western and southern edges of the property occupy areas that were probably not mined. Tree species identified in the woodland include sycamore (*Platanus occidentalis*), black locust, sugar maple (*Acer saccharum*), silver maple (*Acer saccharinum*), cottonwood, ash (*Fraxinus* sp.), and black walnut (Juglans nigra). Common under story plants in the woodland include poison ivy (*Toxicodendron radicans*), brambles (Rubus sp.), and bush honeysuckle (*Lonicera sp*). Two areas of cattails (*Typha* sp.) and willows (*Salix* sp.) are adjacent to the southern woodland area.

Wildlife species observed were white-tail deer (*Odocoileus virginianus*) and several bird species (mallard (*Anas platyrhynchos*), northern harrier (*Circus cyaneus*), black vulture (*Coragyps atratus*), turkey vulture (*Cathartes aura*), American kestrel (*Falco sparverius*), American crow (*Corvus brachyrhynchos*), northern flicker (*Colaptes auratus*), and yellow-rumped warbler (*Dendroica coronata*)). Cattle were observed only in adjacent areas, but signs of cattle grazing, including droppings and heavy trampling in wet areas, were evident on the property.

Sensitive Habitats

Two ponds are present in the northern portion of the property. These appear to be artificial water bodies created during site reclamation. Two areas of cattails (wetland

obligate species) are present on the property. Near the center of the property a small area (less than ¼ acre) appeared as a dried puddle during the VRS. Although this dry puddle is generally barren and has been heavily trampled by cattle, a few clumps of rushes (wetland obligate species) grow in this area.

A small stream flows along the edges of the woodland area located on the southern portion of the property.

There are no direct impacts expected to the aquatic habitats present on-site. To the extent possible, the aquatic sites within the proposed impact areas will be avoided; however, it is possible the dropped materials would need to be occasionally retrieved from these sites. During the VRS of the drop zone, it was noted that the aquatic sites present were heavily trampled by and used as water source for the grazing cattle. The occasional retrieval of dropped materials could cause temporary increased sedimentation with the water column, ultimately affecting the water quality; however, the water quality would be expected to return to pre-exercise conditions shortly after the drop-zone operations have ceased. No significant adverse impacts to the aquatic habitats within the impact area are expected.

There are no impacts anticipated to the small stream located within the woodland area within the southern portion of the drop zone.

Protected Species

According to the U.S. Fish and Wildlife Service, the only federally listed species recorded for Harrison County and having the potential to occur within the drop zone area is the federally endangered Indiana bat (*Myotis sodalis*) (U.S. Fish and Wildlife Service, 2008).

The Ohio DNR was contacted as part of this analysis and asked to provide feedback of the likelihood for the Indiana bat to occur on or adjacent to the proposed project area. The Ohio DNR reviewed Natural Heritage maps and files for the regional area and concluded that no records of Indiana bat have been recorded within 5 miles of the property and no Indiana bat hibernacula have been recorded within 10 miles of the property.



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

Division of Natural Areas & Preserves

Steven D. Maurer, Chief
2045 Morse Road, F-1

1. 1997-90. 2017 1997 1997 1997 1997 1997 Phone: (614) 265-6453 Fax: (614) 267-3096

November 19, 2008

Matthew Malle AECOM Environmental/Earth Tech 1461 E. Cooley Dr., Suite 100 Colton, CA 92324

Dear Mr. Malle:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species near the AECOM Environmental/Earth Tech Proposed Cadiz Drop Zone project #106627. The site is located in Secs. 13, 14, 19, and 20, Cadiz Twp., Harrison Co., Flushing Quadrangle. We have no records of Indiana Bats within 5 miles of the project and no records of Indiana Bat Hibernacula with 10 miles of the project.

There are no existing or proposed state nature preserves at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, state parks, state forests, scenic rivers, or wildlife areas within the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

Please contact me at (614) 265-6409 if I can be of further assistance.

Sincerely,

Butch Grieszmer, Data Specialist

Resource Services Group

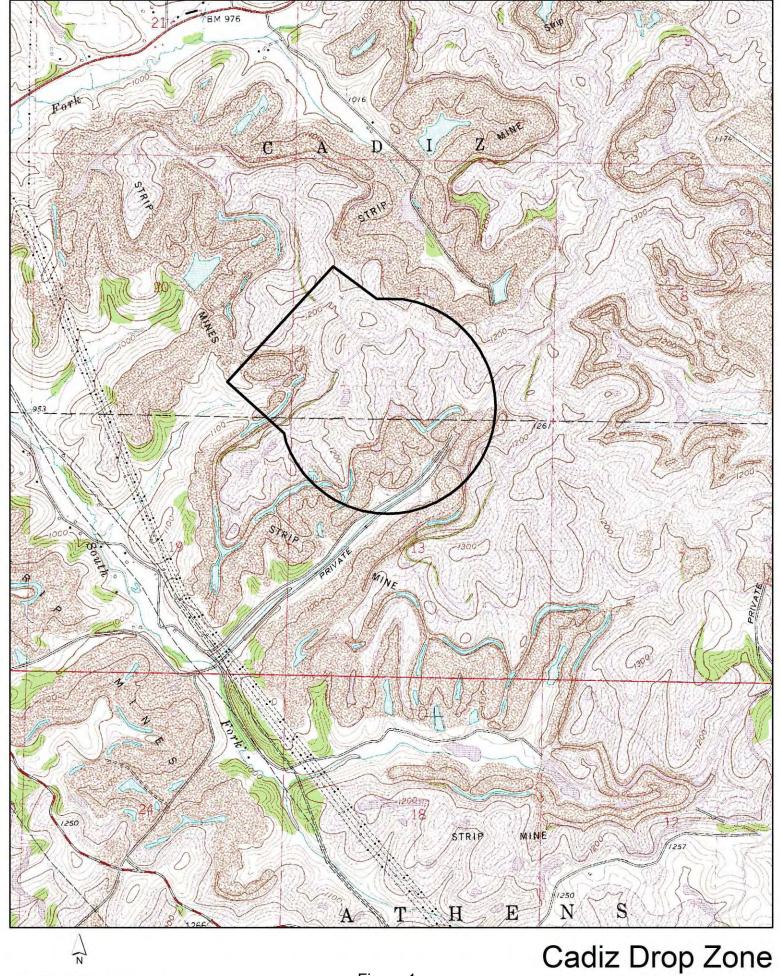
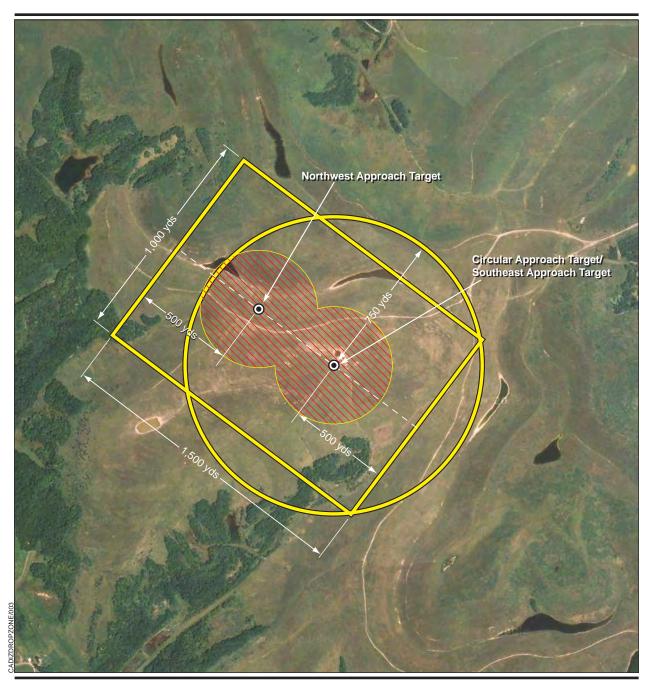


Figure 1

2,000 Feet

400 Meters

Flushing, Ohio 7.5' USGS



EXPLANATION



Expected Impact Area (300-yd radius from targets)



Drop Zone Boundaries

Proposed Cadiz Drop Zone





Northeast end of Drop Zone, aspect northwest toward pond



Center of Drop Zone; close up of potential wetland area. Heavily trampled by cattle grazing.

Figure 3



Figure 3



Figure 3

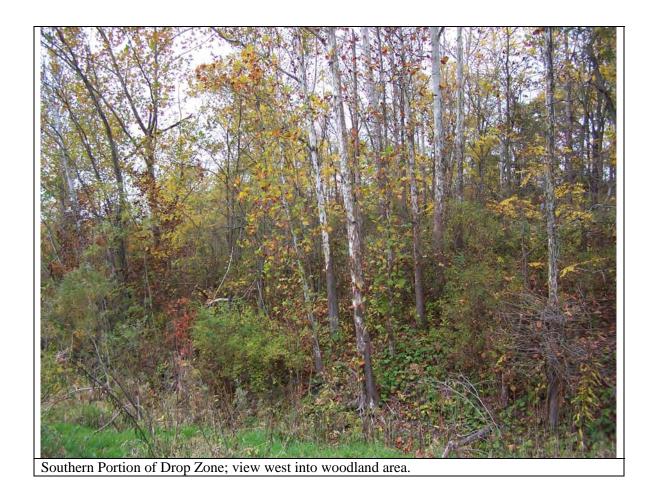


Figure 3



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 614-416-8993 / FAX 614-416-8994

TAILS: 2009-TA-0190

January 15, 2009

Carl Rykaczewski Earth Tech 1461 Cooley Drive, Suite 100 Colton, CA 92324

Re: AFR Cadiz Drop Zone, Harrison County, OH

Dear Mr. Rykaczewski:

This is in response to your December 2, 2008 letter requesting information we may have regarding the occurrence or possible occurrence of Federally-listed threatened or endangered species within the vicinity of the proposed project located on an approximate 430 acre site located approximately 3.3 miles southwest of Cadiz in Harrison County, Ohio. We understand that the purpose of the proposed project is to lease the property for use as a drop zone for airdrop training by the Air Force Reserves. According to your letter, the study area is on a reclaimed strip mine that is currently being leased for cattle grazing. We understand that two ponds and several potential wetlands as well as a stream are located within the proposed site but that no direct impacts to aquatic resources are proposed.

There are no Federal wildlife refuges, wilderness areas, or Critical Habitat within the vicinity of this site.

The U.S. Fish and Wildlife Service recommends that proposed activities minimize water quality impacts and impacts to quality fish and wildlife habitat, such as forests, streams, and wetlands. Riparian zone habitat should be preserved wherever possible. Vegetated areas along stream and river banks stabilize the banks, provide fish and wildlife habitat, filter pollutants and excess nutrients from the water, store excess water during storm events, and minimize sedimentation. We recommend that the proposed action use best construction techniques to minimize erosion. Prevention of non-native, invasive plant establishment is critical in maintaining quality habitats. All disturbed areas should be mulched and re-vegetated with native plants. We recommend planting disturbed areas with native riparian species, for example willows, dogwoods, and cottonwoods. For maximum benefits on water quality and bank stabilization, riparian areas should not be mowed. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions.

MIGRATORY BIRD COMMENTS: The project lies within the range of the **bald eagle** (*Haliaeetus leucocephalus*), a species protected under the Bald and Golden Eagle Protection Act

and the Migratory Bird Treaty Act. Due to the project type, location, and onsite habitat, this species would not be expected within the project area, and no impact to this species is expected. Relative to this species, this precludes the need for further action on this project as required by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

ENDANGERED SPECIES COMMENTS: The proposed project lies within the range of the Indiana bat (Myotis sodalis), a Federally-listed endangered species. Since first listed as endangered in 1967, their population has declined by nearly 60%. Several factors have contributed to the decline of the Indiana bat, including the loss and degradation of suitable hibernacula, human disturbance during hibernation, pesticides, and the loss and degradation of forested habitat, particularly stands of large, mature trees. Fragmentation of forest habitat may also contribute to declines. During winter, Indiana bats hibernate in caves and abandoned mines. Summer habitat requirements for the species are not well defined but the following are considered important:

- (1) dead or live trees and snags with peeling or exfoliating bark, split tree trunk and/or branches, or cavities, which may be used as maternity roost areas;
- (2) live trees (such as shagbark hickory and oaks) which have exfoliating bark;
- (3) stream corridors, riparian areas, and upland woodlots which provide forage sites.

Should the proposed site contain trees or associated habitats exhibiting any of the characteristics listed above, we recommend that the habitat and surrounding trees be saved wherever possible. According to your letter, the proposed project area is grassland that is currently being grazed with some wooded areas on the edges of the site that is not proposed to be impacted. Due to the past activities within the area and current on-site habitat, no impacts are expected for this species.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act of 1973 (ESA), as amended, and are consistent with the intent of the National Environmental Policy Act of 1969 and the U. S. Fish and Wildlife Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed ESA section 7 consultation document.

If you have questions, or if we may be of further assistance in this matter, please contact Melanie Cota at extension 15 in this office or by email at Melanie Cota@fws.gov or visit our website at http://www.fws.gov/midwest/Reynoldsburg/.

Sincerely,

Mary Knapp, Ph.D. Field Supervisor

Mary Knapp

AECOM

1461 E. Cooley Dr, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.aecom.com

Mr. Mark J. Epstein
Department Head
Ohio Historic Preservation Office
Resource Protection and Review
567 East Hudson Street
Columbus, OH 43211-1030

December 24, 2008

Dear Mr. Epstein,

Subject: Cadiz Drop Zone Section 106 Project Summary Form

On behalf of the Air Force Reserves (AFR), AECOM is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz. The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with federal laws, we are initiating correspondence and consultation efforts with your office regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop zone offers the following improvements over the Starvaggi Drop Zone:

- A relatively level area without steep slopes, rugged terrain, and large trees
- A large area to establish a rectangular drop zone 1,000 yards by 1,500 yards in size
- Can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
- It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW's training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop

Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by your office noted one cultural resource survey had been conducted within a mile radius of the APE. This survey covered a small portion of the Cadiz Drop Zone, less than ten percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

Enclosed you will find a completed Resource Protection and Review – Section 106 Review – Project Summary Form. We believe the project will have No Adverse Effect [36CFR 800.4(d)(1)] on historic properties. Thank you for your cooperation with our efforts to address any possible cultural resource that may be impacted. We look forward to your response. Please contact Christopher Doolittle if you need additional information (<u>christopher.doolittle@aecom.com</u>; 909-554-5045).

Sincerely,

Christopher Doolittle

Cultural Resources Manager

Che/Din

AECOM

Enc: Cadiz Drop Zone Project Summary Form



January 22, 2009

Christopher Doolittle AECOM 1461 E. Cooley Drive, Suite 100 Colton, California 92324

Dear Mr. Doolittle:

Re: Cadiz Drop Zone, Cadiz Township, Harrison County, Ohio

This is in response to your correspondence, received on January 5, 2009, regarding the new drop zone for the 911th Airlift Wing in Cadiz Township, Harrison County, Ohio. My comments are made pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended, and the associated regulations at 36 CFR Part 800. Based on the information submitted, it is my opinion that the proposed undertaking will not affect properties listed in or eligible for listing in the National Register of Historic Places. No further coordination is required unless the project changes or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted as per 36 CFR 800.13.

If you have any questions, please contact me at (614) 298-2000, or by email at nyoung@ohiohistory.org.

Sincerely,

Nathan J. Young, Project Reviews Manager

Resource Protection and Review

1023150



January 6, 2009

Mr. John P. Froman Chief, Peoria Tribe of Oklahoma PO Box 1527 118 S. Eight Tribe Trail Miami, OK 74355

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Froman:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

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At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

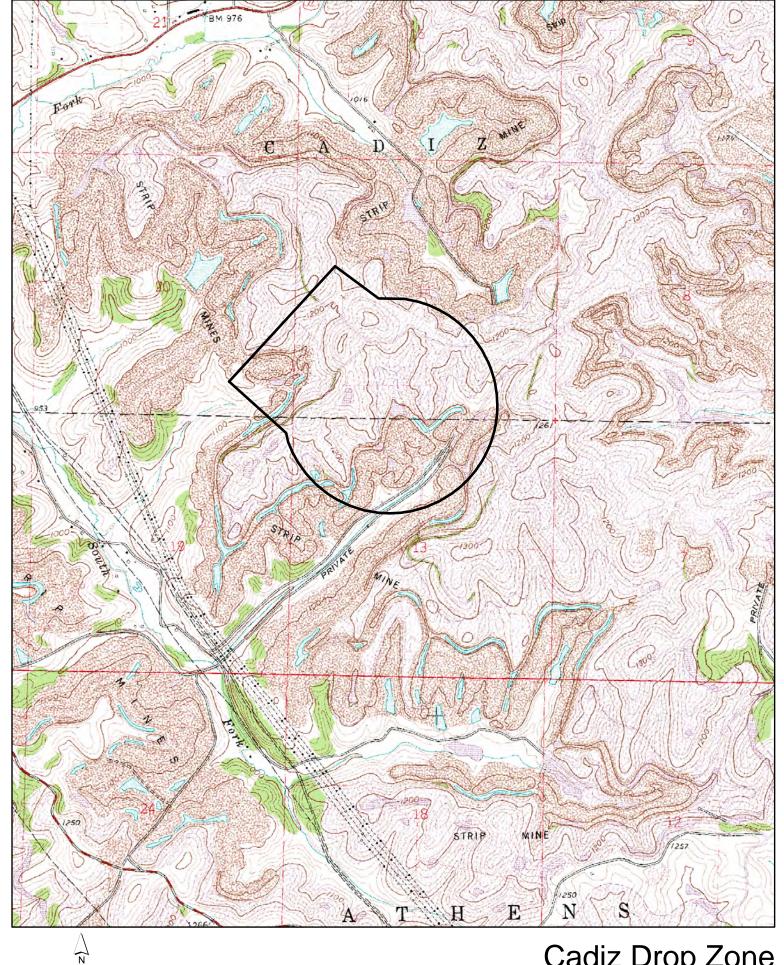
Earth Tech Inc.,

Carl Rykaczewski

agu

Senior Environmental Professional

Attachment:



500 1,000 2,000 Feet 400 Meters

Cadiz Drop Zone

Flushing, Ohio 7.5' USGS

PEORIA TRIBE OF INDIANS OF OKLAHOMA

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538 P.O. Box 1527 MIAMI, OKLAHOMA 74355

CHIEF John P. Froman

SECOND CHIEF Jason Dollarhide

January 22, 2009

Earth Tech Attn: Carl Rykaczewski Senior Environmental Professional 1461 E Cooley Drive, Suite 100 Colton, CA 92324

RE:

Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

Thank you for notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves protection and Repatriation Act (NAGPRA) are discovered during construction, the Peoria Tribe request notification and further consultation.

The Peoria Tribe has no objection to the proposed construction. However, if human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

John P. Froman

Chief

xc:

Bud Ellis, Repatriation/NAGPRA Committee Chairman



January 6, 2009

Mr. Brady Grant THPO, Office of Archaeology and Historic Preservation Turtle Mountain Band of Chippewa Indians P.O. Box 900 Belcourt, North Dakota 58316

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Grant:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

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Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW's training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground

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At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

agu

Senior Environmental Professional

Attachment:



January 6, 2009

Mr. Robert Guenthardt Chairman, Little River Band of Ottawa Indians of Michigan 375 River Street Manistee, Michigan 49660-2729

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Guenthardt:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachment:



January 6, 2009

Mr. Clint Halftown Chief, Cayuga Nation PO Box 11 Versailles, NY 14168

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Halftown:

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachment:



January 6, 2009

Mr. Darwin Hill Tonawanda Band of Seneca Indians of New York 7027 Meadville Road Basom, New York 14013

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachment:



January 6, 2009

Ms. Clara P. Holt NAGPRA Officer, Eastern Band of Cherokee Indians of North Carolina P.O. Box 455 Cherokee, North Carolina 28719

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachment:



January 6, 2009

Mr. John Miller Pokagon Band of Potawatomi Indians PO Box 180 901 Spruce Street Dowagiac, Michigan 49047

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Miller:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW's airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

- A relatively level area without steep slopes, rugged terrain, and large trees
- A large area to establish a rectangular drop zone 1,000 yards by 1,500 yards in size
- Can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
- It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW's training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground

surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by the Ohio Historic Preservation Office noted one cultural resource survey had been conducted within a mile radius of the project area. This survey covered a small portion of the Cadiz Drop Zone, less than 10 percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

agu

Senior Environmental Professional

Attachment:



January 6, 2009

Ms. Kathleen Mitchell THPO, Seneca Nation of Indians PO Box 231 Salamanca, New York 14779

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Mitchell:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

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Senior Environmental Professional

Attachment:

1. Figure 1



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

January 6, 2009

Ms. Julie Olds THPO, Miami Tribe of Oklahoma P.O. Box 1326 202 South Eight Tribes Trail Miami, Oklahoma 74355

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Olds:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

agu

Senior Environmental Professional

Attachment:

1. Figure 1



Miami Tribe of Oklahoma

P.O. Box 1326 Miami, Oklahoma 74355 Ph: (918) 542-1445 Fax (918) 542-7260



January 15, 2009

Earth Tech 1461 E. Cooley Drive, Suite 100 Colton, California 92324

RE: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

To Whom It May Concern:

Aya, kikwesitoole. My name is Joshua Sutterfield and I am the Tribal Historic Preservation Officer for the Federally Recognized Miami Tribe of Oklahoma. In this capacity I am the Miami Nation's point of contact for all NAGPRA and Section 106 issues.

In reference to the above mentioned construction/project's, the Miami Nation is not currently aware of existing documentation directly linking specific Miami religious, cultural, or historic sites to the above referenced construction/project site(s). However, as this site(s) is/are within the aboriginal homelands of the Miami Nation, should any Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) be discovered during this or any construction project the Miami Nation requests immediate consultation with the appropriate State Historical Society or related entity.

The Miami Nation offers no objection to the proposed construction/project at this time. Again, should human remains and/or objects be uncovered please contact me at 918-542-1445, or by mail at the address listed above, to initiate consultation.

Sincerely

Joshua Sutterfield Tribal Historic Preservation Officer Miami Nation



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

January 6, 2009

Mr. Philip G. Peters Chief, Saginaw Chippewa Indian Tribe of Michigan Isabella Reservation 7070 East Broadway Road Mount Pleasant, Michigan 48858

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Peters:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Earth Tech Inc.,

Carl Rykaczewski

agu

Senior Environmental Professional

Attachment:

1. Figure 1



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

January 6, 2009

Ms. Laura Spurr Huron Potawatomi Nation 2221 1½ Mile Road Fulton, Michigan 49052

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Spurr:

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Attachment:

1. Figure 1



Earth Tech 1461 E. Cooley Drive, Suite 100, Colton, California 92324 T 909.554.5000 F 909.424.1924 www.earthtech.aecom.com

January 6, 2009

Ms. Phyllis Wahahrockah-Tasi NAGPRA Director, Delaware Nation P.O. Box 825 Anadarko, Oklahoma 73005

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:

- (a) American Indian Religious Freedom Act of 1978
- (b) Native American Graves Protection and Repatriation Act of 1990
- (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Wahahrockah-Tasi:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski

age

Senior Environmental Professional

Attachment:

1. Figure 1

APPENDIX K

INTERAGENCY AND INTERGOVERNMENTAL COORDINATION FOR ENVIRONMENTAL PLANNING AND PUBLIC COMMENTS AND RESPONSES

Interagency and Intergovernmental Coordination for Environmental Planning and Public Comments and Responses

The draft environmental assessment (EA)/environmental baseline survey (EBS) was circulated to the agencies listed below for 30-day review beginning on February 2, 2009. A notice of availability informing the public where a copy of the Draft EA/EBS was available for review and who to contact for further information or to submit comments was published in the Harrison News Herald for the week beginning Monday, February 2, 2009. A copy of this notice is provided in this appendix. This appendix also provides the Air Force Reserve's responses to comments received to the Draft EA/EBS followed by copies of the comments.

Distribution List for the Draft Cadiz Drop Zone EA/EBS

February 2009

Elected Officials

State of Ohio Officials

State Legislature

The Honorable Allan R Sayre Ohio State Representative, District 96 77 S. High St 10th Floor Columbus, OH 43215-6111

The Honorable Jason H. Wilson Senate Building Room #052, Ground Floor Columbus, Ohio 43215

Local Officials

Ken Zitko Mayor 44375 Cherrywood Dr. Cadiz, Ohio 43907

Harrison County Board of Commissioners William Host President, Commissioner 100 West Market Street County Courthouse Cadiz, OH 43907-1132

Federal Agencies

U.S. Department of the Interior Office of Environmental Policy and Compliance Philadelphia Region Custom House, Room 244 200 Chestnut Street Philadelphia, PA 19106

Federal Aviation Administration Detroit Airports District Office, DET -ADO-600 11677 South Wayne Road, Suite 107 Romulus, MI 48174

U.S. Fish & Wildlife Service Ohio Ecological Services Field Office 4625 Morse Road Columbus, Ohio 43230

U.S. Environmental Protection Agency, Region 5 NEPA Expert Attn: Mr. Ken Westlake 77 W. Jackson Blvd. Chicago, IL 60604

Department of Defense

U.S. Army Corps of Engineers Office of Environmental Policy (CECW-AR-E) 7701 Telegraph Road Alexandria, VA 22315-3861

State Agencies

Ohio Department of Natural Resources Division of Natural Areas & Preserves Natural Heritage Program 2045 Morse Rd., Bldg. F-1 Columbus, OH 43229-6693

Ohio Department of Natural Resources Division of Wildlife Neil Lynskey 912 Portage Lakes Drive Akron, Ohio 44319 Ohio Environmental Protection Agency Southeast District Office 2195 Front Street Logan, Ohio 43138

Ohio Historical Society Ohio Historic Preservation Office 567 East Hudson Street Columbus, Ohio 43211-1030

Local Agencies

Harrison County Airport Authority 43000 Airport Road Cadiz, OH 43907-9605

Libraries

Puskarich Public Library 200 Market St Cadiz, OH 43907

Monday, February 2, 2009

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NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

Establish New Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserves have prepared a combined Draft Environmental Assessment (EA), Baseline Survey (EBS), and Finding of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/EBS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Airilft Wing (AW) of the Air Force Reserves. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA. The following alternatives have been addressed in the EA:

- The Proposed Action entails the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for airdrop training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops
- The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EBS and FONSI are available for review at the following location:

Puskarich Public Library 200 Market Street Cadiz, OH 43907

Public comment on the Draft EA/EBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl Rykaczewski AECOM 1461 E. Cooley Drive, Suite 100 Colton, CA 92324

Your comments on this Draft EA/EBS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EBS. Personal home addresses and telephone numbers will not be published in the Final EA/EBS.

What's New at JC Wine Cellar?

Tuesday: Two for Tuesday
Two Dinner Entrees Starting at \$24.95
Wednesday & Thursday "5 & 10 Days"

Lunch Items \$5 (12 to 4 p.m.) Dinner Items \$10 (4 to 6 p.m.)

Friday "Surf & Turf Night"

Saturday

Live Entertainment

Sunday

Lunch menu 2 to 5 p.m. Dinner menu available 2 to 8



-WINE CELLARS -

Bring this coupon with you on Friday & Saturday for one FREE cheeseplate with purchase of bottle of wine.
(12 to 5 p.m.)

Hours

Tues: 4:30 to 9:00, Wed-Sat: 12 to 9:00, Sun: 2 to 8 Lunch served from 12 to 3, Dinner from 4:30 to close

8306 St. Rt. 43 East Springfield, Ohio 740-543-4200 • 800-899-5180

Responses to Comments

| No. | Name | Agency | Comment | Response |
|-----|-------------------------|---|--|----------------|
| 1. | Mary Knapp, PhD | U.S. Fish and Wildlife Service | Due to declining budgets, smaller staffs, and competing priorities, we are unable to respond to all requests for technical assistance at this time. Without a thorough review of the project, it would be impossible to accurately assess the potential effects. (Note: The USFWS previously provided a response to a request for information in which they indicated no impacts to bald eagles or Indiana bats are expected from this project. The | Comment noted. |
| 2. | Kenneth Westlake | U.S. Environmental Protection Agency, Region V | response is provided in Appendix J.) The document was given a cursory review, and we determined that there were no significant concerns meriting comment. | Comment noted. |
| 3. | Katherine S. Delaney | Federal Aviation Administration | We have no comments provided that the Air Force Reserves coordinates Drop Zone activities with the FAA, Flight Service Stations and issues the appropriate NOTAMs. | Comment noted. |
| 4. | Craig Butler | Ohio Environmental Protection Agency, Southeast District Office | Ohio EPA, Southeast District Office reviewed the information provided and our current records to determine if there are outstanding environmental compliance issues with the 430 acre parcel identified. No issues were identified. | Comment noted. |

| 5a. | Brian Mitch | Ohio Department of Natural | The ODNR, Division of Natural Areas and Preserves, Natural Heritage Database contains | Comment noted. |
|-----|-------------|----------------------------|---|--|
| | | Resources, | no records of rare species or unique natural | |
| | | Division of | features within the proposed project area and | |
| | | Natural Areas and | there are no state nature preserves, state parks, | |
| | | Preserves | wildlife areas, or scenic rivers in the vicinity of | |
| | | | the sites. Our inventory program has not | |
| | | | completely surveyed Ohio and relies on | |
| | | | information supplied by many individuals and | |
| | | | organizations. Therefore, a lack of records for | |
| | | | any particular area is not a statement that rare | |
| | | | species or unique features are absent from that | |
| | | | area. | |
| 5b. | Brian Mitch | Ohio Department | The project is within the range of the Indiana | This comment is consistent with the |
| | | of Natural | bat (Myotis sodalis), a state and federally | findings of the EA/EBS. No revision to |
| | | Resources, | endangered species. Since no tree removal is | the document has been made. |
| | | Division of | necessary to complete this project, the DOW | |
| | | Wildlife | believes the project is not likely to impact this | |
| | | | species. | |

| 5c. | Brian Mitch | Ohio Department of Natural Resources, Division of Wildlife | The project is within the range of the bald eagle (Haliaeetus leucocephalus), a state threatened species. The location of bald eagle activity frequently changes. Therefore, closer to the actual date of construction, the applicant must obtain an updated status of bald eagle activity in the area. To obtain any changes in status, contact Andrea Tibbels or Dave Sherman at the Ohio Department of Natural Resources, | The AFR will contact the Ohio Department of Natural Resources, Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area prior to initiation of activities at the proposed Cadiz Drop Zone. The document has been revised to include this provision. |
|-----|-------------|--|--|--|
| | | | Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area. Andrea can be reached at (419) 898-0960 extension 25 and Dave at extension 24. If a nest is located within ½ mile of the project site, coordination with the DOW is required. | Note: Subsequent comment from ODNR DOW supersedes this comment (see 5e). |
| 5d. | Brian Mitch | Ohio Department of Natural Resources, Division of Wildlife | The project is within the range of the black bear (<i>Ursus americanus</i>), a state endangered species, and the bobcat (<i>Lynx rufus</i>), a state endangered species. Due to the mobility of these species, the project is not likely to have an impact on these species. | The document has been revised to incorporate this information. |
| 5e. | Brian Mitch | Ohio Department of Natural Resources, Division of Wildlife | Since there are no plans for construction for this project, the DOW believes the project is not likely to impact the bald eagle (<i>Haliaeetus leucocephalus</i>), a threatened and endangered species. Therefore, there is no need for the Air Force Reserves to contact the DOW "closer to the date of actual construction" and there is no need for the Air Force Reserves to contact the DOW prior to beginning air drop activities. | Comment noted. |

| 6. | Scott | Private Citizen | No Action. This would disrupt our quiet | The Cadiz, Ohio, area is located within |
|----|---------|-----------------|---|---|
| | Sedgmer | | community. Farm animals would be affected | LATN A where low-altitude flights of |
| | | | also. | C-130 aircraft currently are conducted. In |
| | | | | the LATN, C-130 aircraft fly as low as |
| | | | | 500 feet AGL which is the same minimum |
| | | | | altitude that the same type of aircraft |
| | | | | would be flown during the proposed drop |
| | | | | zone activities. Aircraft operations at the |
| | | | | drop zone would be more concentrated |
| | | | | than the currently dispersed low-altitude |
| | | | | aircraft operations that occur in the area. |
| | | | | However, as discussed in Section 4.3.1, |
| | | | | the predicted noise levels in the vicinity of |
| | | | | the proposed drop zone would be less than |
| | | | | DNL 45dBA. Noise levels below DNL |
| | | | | 65dBA are considered by the FAA to be |
| | | | | compatible with all land uses, including |
| | | | | residential and agricultural. As stated in |
| | | | | Section 3.4, the DNL descriptor has been |
| | | | | recognized by HUD, U.S. EPA, FAA, and |
| | | | | DOD as one of the most appropriate |
| | | | | metrics for estimating degree of nuisance |
| | | | | or annoyance that increased noise levels |
| | | | | would cause. In addition, activities |
| | | | | proposed for the Cadiz Drop Zone are the |
| | | | | same as are currently conducted at the |
| | | | | Starvaggi Drop Zone near Burgettstown, |
| | | | | Pennsylvania. The AFR has received no |
| | | | | noise complaints from current drop zone |
| | | | | activities conducted at the Starvaggi Drop |
| | | | | Zone. |

| 7-15. | Darin Rose | Private Citizens | No Action | The AFR has noted these comments |
|-------|-------------|------------------|--------------------------------------|--|
| . 10. | Dick and | | (Note: all 9 comments are identical) | expressing a preference for the No-Action |
| | Bobbie | | (| Alternative. No revision to or clarification |
| | Dickerson | | | of the analysis in the EA/EBS is required |
| | Mark Fulton | | | in response to this comment. |
| | Ronald | | | |
| | Welson | | | |
| | Maryann | | | |
| | Lee | | | |
| | Jeanette | | | |
| | Hale | | | |
| | Teresa | | | |
| | Shaw | | | |
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| | Rich and | | | |
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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 614-416-8993 / FAX 614-416-8994 February 3, 2009

Tails: 2009-TA-0331

Carl Rykaczewski AECOM 1461 E. Cooley Drive, Suite 100 Colton, CA 92324

Re: Draft EA/EBS and FONSI to Establish New Drop Zone in Cadiz, OH

Dear Mr. Rykaczewski:

We have received your recent correspondence requesting information about the subject proposal. Due to declining budgets, smaller staffs, and competing priorities, we are unable to respond to all requests for technical assistance at this time. Without a thorough review of the project, it would be impossible to accurately assess the potential effects.

As an alternative, we encourage you to visit the Service's Region 3 Section 7 Technical Assistance website at http://www.fws.gov/midwest/endangered/section7/s7process. There you will find guidance to assist you in fulfilling the requirements for consultation under Section 7 of the Endangered Species Act, including a step-by-step explanation of the section 7 process, species distribution lists, species life history information and conservation measures, and examples of typical letters.

If you have additional questions or require further assistance with your project proposal, please contact me at the following number (614) 416-8993 x12. I would be happy to discuss the project in further detail with you and provide additional assistance if necessary. In addition, you can find more information on natural resources in Ohio by visiting our homepage at: http://www.fws.gov/midwest/Reynoldsburg.

Sincerely,

Mary Knapp, Ph.D. Field Supervisor

Mary Knapp



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

77 West Jackson Boulevard Chicago, IL 60604

Date: February 4, 2009

Carl Rykaczewski AECOM 1461 East Cooley Drive, Suite 100 Colton, California 92324

RE: Draft Environmental Assessment/Baseline Survey to Establish New Drop Zone in Cadiz, Ohio

Dear Mr. Rykaczewski:

The NEPA Implementation Section has received the document listed above. Under the National Environmental Policy Act (NEPA), the Council on Environmental Quality regulations, and Section 309 of the Clean Air Act, U.S. EPA reviews and comments on major federal actions. Typically, these reviews focus on Environmental Impact Statements, but we also have the discretion to review and comment on other environmental documents prepared under NEPA if interest and resources permit.

We did not undertake a detailed review of the document you sent to this office, and will not be

The document was not prepared under NEPA.

The document was given a cursory review, but other workload priorities precluded us from detailed review and comment.

The document was given a cursory review, and we determined that there were no significant concerns meriting comment.

We opted to wait for the next level of documentation on this project before deciding whether or not to comment.

We reserve the right to reconsider undertaking a review at future planning stages, or if significant new data on the project is made available by the sponsoring agency or other interested parties. If you have any questions, please call Kathy Kowal, of my staff, at 312-353-5206 or e-mail her at kowal.kathleen@epa.gov. Thank you for providing information on the project.

Sincerely,

Kenneth A. Westlake, Supervisor

NEPA Implementation

Office of Enforcement and Compliance Assurance

FAA Comments - Draft EAEBS Cadiz OH

From: Katherine.S.Delaney@faa.gov

Sent: Thursday, February 26, 2009 6:27 AM

To: Rykaczewski, Carl

Subject: FAA Comments - Draft EA/EBS Cadiz, OH

Carl:

The FAA has reviewed the Draft Environmental Assessment/Baseline Survey (EA/EBS) and Draft Finding of No Significant Impact (FONSI) to Establish New Drop Zone in Cadiz, Ohio.

We have no comments provided that the Air Force Reserves coordinates Drop Zone activities with the FAA, Flight Service Stations and issues the appropriate NOTAMs.

If you have any questions, please contact me.

Katherine S. Delaney Community Planner Detroit Airports District Office Phone: (734) 229-2958



Southeast District Office

2195 Front Street Logan, Ohio 43138 TELE: (740) 385-8501 FAX: (740) 385-6490 www.epa.state.oh.us

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

February 25, 2009

Carl Rykaczewski, Delivery Order Manager AECOM 1461 E. Cooley Drive Suite 100 Colton, CA 92324

Dear Mr. Rykaczewski:

This letter is in response to your January 29, 2009 letter requesting input from Ohio EPA on the Draft Environmental Assessment/Baseline Survey (EA/EBS) and Draft Finding of No Significant Impact (FONSI) to establish a new drop zone in Cadiz, Ohio.

Ohio EPA, Southeast District Office reviewed the information provided and our current records to determine if there are outstanding environmental compliance issues with the 430 acre parcel identified. No issues were identified.

Thank you for the opportunity to comment. If you have any additional questions, or need additional information, please contact me at (740) 385-8501.

Sincerely,

Craig Butler, Chief

CB/pah

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n 30 kan bar 1, hi baji sa sa palak kalan petapen. Bara 43 an nasi bira berak dibanten bara bajik nasi bara bara batu pendapen keleba kelan bagi kas Kara heroi 20 bara 12 min 17 min 18 min bara bara bara bara bara bara 18 min bara bara bara 18 min bara bara b From: Mitch, Brian [mailto:Brian.Mitch@dnr.state.oh.us]

Sent: Thursday, March 05, 2009 1:19 PM

To: Rykaczewski, Carl

Subject: 09-0046; DRAFT EA to Establish New Drop Zone



ODNR COMMENTS TO Carl Rykaczewski, AECOM, 1461 East Cooley Drive, Suite 100, Colton, California 92324

Location: The project is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz.

Project: The project involves the Air Force Reserve (AFR) leasing a 430-acre parcel which will be used as a drop zone by the 911th Airlift Wing Located at Pittsburgh International Airport Air Reserve Station in Corapolis, Pennsylvania.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Rare and Endangered Species: The ODNR, Division of Natural Areas and Preserves, Natural Heritage Database contains no records of rare species or unique natural features within the proposed project area and there are no state nature preserves, state parks, wildlife areas, or scenic rivers in the vicinity of the sites.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The ODNR, Division of Wildlife (DOW) has the following comments.

The project is within the range of the Indiana bat (*Myotis sodalis*), a state and federally endangered species. Since no tree removal is necessary to complete this project, the DOW believes the project is not likely to impact this species.

The project is within the range of the bald eagle (*Haliaeetus leucocephalus*), a state threatened species. The location of bald eagle activity frequently changes. Therefore, closer to the actual date of construction, the applicant must obtain an updated status of bald eagle activity in the area. To obtain any changes in status, contact Andrea Tibbels or Dave Sherman at the Ohio Department of Natural Resources, Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area. Andrea can be reached at (419) 898-0960 extension 25 and Dave at extension 24. If a nest is located within ½ mile of the project site, coordination with the DOW is required.

The project is within the range of the black bear (*Ursus americanus*), a state endangered species, and the bobcat (*Lynx rufus*), a state endangered species. Due to the mobility of these species, the project is not likely to have an impact on these species.

ODNR appreciates the opportunity to provide these comments. Please contact Brian Mitch at (614) 265-6378 if you have questions about these comments or need additional information.

Brian Mitch, Environmental Review Manager Ohio Department of Natural Resources Environmental Services Section 2045 Morse Road, Building D-3 Columbus, Ohio 43229-6693 Office: (614) 265-6378 EAX: (614) 267-4764

FAX: (614) 267-4764 brian.mitch@dnr.state.oh.us From: Mitch, Brian [mailto:Brian.Mitch@dnr.state.oh.us]

Sent: Wednesday, March 18, 2009 9:42 AM

To: Sniezek, Frank Civ USAF AFRC 911 MSG/CEVE Cc: Matis, Joseph B Civ USAF AFRC 911 MSG/CEV

Subject: RE: ODNR Response to Environmental Assessment/Baseline Survey

to Establish New Drop Zone in Cadiz, Ohio

Frank,

After reviewing the additional information provided for this project, the Ohio Department of Natural Resources, Division of Wildlife (DOW) has the following comments:

Since there are no plans for construction for this project, the DOW believes the project is not likely to impact the bald eagle (Haliaeetus leucocephalus), a threatened and endangered species. Therefore, there is no need for the Air Force Reserves to contact the DOW "closer to the date of actual construction" and there is no need for the Air Force Reserves to contact the DOW prior to beginning air drop activities.

Brian Mitch, Environmental Review Manager Ohio Department of Natural Resources Environmental Services Section

2045 Morse Rd., Building D-3 Columbus, OH 43229-6693

Office: (614) 265-6378 Fax: (614) 267-4764

brian.mitch@dnr.state.oh.us



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DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

Establish New Cadis Drop Zone in Cadis, Onio

The Air Force Reserves have prepared a combined Draft Environmental Assessment (EA) Beesline Survey (EBS), and Finding of No Significant Impact (FONS); tissed servery (EBS), and Finding of No Significant Impact (FONS); tissed servery (EBS), and Finding of No Significant Impact (FONS); tissed servery (EBS), and Finding of No Significant Impact (FONS); tissed servery (EBS), and Finding of No Significant Impact (FONS); tissed servery (EBS), and Finding NEPA. The Draft EA/ ERS has been prepared to support the proposed lease of property (Casted near Cadis for use as a drop zone for training by the 911th Airtif Wing (AV) of the Air Force Reserves. The 911 AW is located at Pittaburgh International Airport Air Reserve Station, Coraopolis, PA. The following stematives have been addressed in the EA:

The Proposed Action auxilia the 911 AW leasing approximately 430 screat of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadis. The property would be used for aircrop preining activities including dropping sandbags and heavier instends from Ca130 aircraft and occasional use for paratrooper drops the Ne-Action Aiternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown. PA

not leasing property near Cadiz and continuing to use an existing

drop zone near Burgettstown, PA. The Draft EA/EBS and FONS(are available for review at the following location:

Puskerich Public Library 200 Market Street Cadiz, OH 43907

Public comment on the Draft EA/EBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl Rykaczewski AECOM 1461 E. Cooley Drive, Suite 100 Collon, CA 92324

Your comments on this Draft EA/EBS and FONSI are requested. Any personal information provided will be used only to identify your desire to ritiake a statement during the public comment period or to fulfill requests for copies of the final EA/EBS. Personal home addresses and telephone numbers will not be published in the Final EA/EBS.

NO ACTION Scott Sedamer

This would disrupt our quiet community.
FARM ANIMALS would be Affected, ALSO.



DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establish New Cadiz Drop Zone in Cadiz, Ohio
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EBS has been prepared to support the proposed lease of property
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Airtit Ving (AW) of the Air Force Reserves. The 911 AW is located at
Pittaburgh International Airport Air Reserve Station, Coraopolis, PA.
The following alternatives have been addressed in the EA:

1 The Proposed Action entails the 911 AW leasing approximately 430
acres of privately owned property on a reclaimed strip mine located
3.3 miles sourwest of the town of Cadiz. The property would be used
for airgop fraining activities including dropping sandbags and heavier
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> Puskarich Public Library 200 Market Street Cadiz, OH 43907

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HETION DArin Rose CADIZ, OH.



Control of the Proposed Action and Property on a reclaimed strip mine located at Pittsburgh International Air Payer Air Payer Reserves The Proposed Action against Air Payer Air The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

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drop zone neer Burgettstown, PA.

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- no-action Maryann Lee Cadiz, OH



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The Mo-Action Alternative would involve the Air Force Reserves

not lessing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EBS and FONSI are available for review at the following location:

Puskerich Public Library 200 Market Street Cadiz, OH 43907

Public comment on the Draft EA/EBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl Rykaczewski AECOM MI. CHIT PLYKHUZHWENI AECOM 1461 E. Cooley Drive, Suite 100 Celton, CA 92324

Your comments on this Draft EA/EBS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EBS. Personal home addresses and telephone numbers will not be published in the Final EA/EBS.

No Action

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ROTTES GRANGILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establine New Cadiz Drop Zone in Cadiz, Ohio
The Air-Force Reserves have prepared a combined Draft Environmental
Assessment (E.A.), Asseline Survey (EBS), and Finding of No Significent
impact (FONSI), dated, January 2009 in accordance with the National
Environmental Policy Act (NEPA) of 1969 and the Council on
Environmental Policy Act (NEPA) of 1969 and the Council on
Environmental Quality regulations implementing NEPA. The Draft EA/
EBS has been prepared to support the proposed lease of property
located near Cadit for tree as a drop zone for training by the 911th
Alrift Viring (AW) of the Air Force Reserves. The 911 AW is located at
Pittaburgh International Airport Air Reserve Station, Coraopolis, PA.
The following alternatives have been addressed in the EA:

The Proposed action stitules the 911 AW leasing approximately 430
acres of privately owned property on a reclaimed strip mine located
3.3 miles apurious of the town of Gadiz. The property would be used
for airdop training activities including dropping sandbags and heavier
materials from o-130 aircraft and occasional use for paratrooper drops
The No-Actition Alternative would involve the Air Force Reserves
not leasing property near Cadiz and continuing to use an existing
drop zone near Burgeltstown, PA.

drop zone near Burgettstown, PA.

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